NOVEMBER 1981

REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

Cover Story . . .

'OLD MAN' CHRISTMAS
—by Fred Hurteau, WD4SKH

Also this issue . . . .

* TIME MACHINE MOBILE FOUR
* OFFICER ELECTIONS COMING
* NEW NC DIRECTOR & VICE-DIRECTOR

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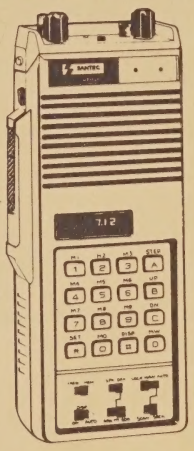

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REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

NOVEMBER 81 - JANUARY 82 "IN OUR 10th YEAR" VOLUME 10, NO. 4

ORGANIZED 1971

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ON THE COVER

Original art by Fred Hurteau as a background for his "Old Man" Christmas cover story this issue. See our thrilling Time Machine Mobile Four story in this issue also.

REPEATER JOURNAL EDITORIAL COMMENT

A Crying Voice Has Been Heard!

In a letter to your editor, John Lindholm, Communications Manager for ARRL, and Chairman of the Contest Advisory Committee starts: "Your crying voice in the wilderness has been heard."

The letter was in response to our editorial last issue as I lamblasted the rules regarding VHF/UHF contests. ("My VHF QSO Party Crushed", editorial, August 1981 Repeater Journal)

In addition to the letter from Lindholm, we received letters from three other members of the contest advisory committee. Our editorial was picked up and run in a VHF/UHF newsletter in Texas. We have received numerous letters from our membership and dozens of verbal comments from Amateurs in support of the Editorial.

Gay Millius, Roanoke Division Director of ARRL also wrote suggesting as did most of the advisory committee members, my ideas on changing the rules for ARRL sponsored VHF/UHF contests.

We wrote what we felt would be a good set of rules to include in these contests and covered with a page of rationale, explaining why these rules would be necessary. Each member of the advisory committee will be getting

Continued On Page 52

Hamfest Season . . . It's All Over . . .

The 1981 hamfest season is now history. It was a year of change for many hamfests . . . to the better.

I had the pleasure of visiting 20 different ones this past season, a record number for me. Some of the changes I saw, were swelling crowds, more dealers and more flea market vendors.

Clubs went all out to woo dealers, flea market operators and especially attendance. The Repeater Journal was filled all year with more hamfest advertising than ever before in history. Many clubs chose to run their hamfest ad 2 issues.

Some of the hamfests I went registering drastic upswings in attendance this year included: Richmond, Va.; Virginia Beach, Va.; Roanoke, Va. and Rock Hill, S.C. Slight increases were noted at Shelby, N.C.; Elkin, N.C.; Durham, N.C.; Raleigh, N.C.; and Bluefield, W. Va.

The two biggest hamfests in the area, Charlotte and Shelby were both quite successful. Charlotte although didn't register a large gain in attendance, did manage to completely sell out of booth space. With their plans for 1982, they will probably swell over 8,000 who attended in 1981. Shelby officials said they estimated between 9,000 and 10,000 for both days of their event and

Continued On Page 45

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REPEATER JOURNAL

NOVEMBER 81 - JANUARY 82

IN THIS ISSUE . . .

Editorial Comment: "Crying Voice Heard" & "Hamfest Season Over" 1
Nominating Committee Completes Officer Nominations 3
Time Machine Mobile Four (Si-Fi Amateur Suspense) 6
CVRA-SERA Officer Nominating Form (Final Chance) 9
Minutes of September Directors Meeting 11
Outgoing President's Reflections 11
CVRA-SERA Coordination Policy & Guidelines 12
"Ole Man Christmas" - CVRA-SERA Journal Christmas Cover Story 13
Local Publicity For Your Radio Club 17
Club Meeting Calendars 18-20
SERA Second Quarter Financial Report 23
First South Carolina Tall Tower (The Dillon Repeater) 24
Coordination Map for Tennessee 26
Repeater Index (Distribution of Repeaters by Frequency) 27-28
The CVRA-SERA 5 State Repeater Index (By State, By City) 29-32
T-MARC Repeater Index (Md., Del., D.C.) 33
Full Repeater Memberships Expire Dec. 31 35
CVRA-SERA District Ramblings 41-42
New Director-Vice Director Appointed for N.C. 45
Barrett, Adams - New Secretary & Treasurer 47
Tennessee Names More new Assistant Directors 48
CVRA-SERA Associate Membership Application 55
Hamfest Calendar, Classifieds 56

SPECIAL NOTICE: Associate Membership deadlines are now on the 15th of the month preceding months of publication (Jan. 15, Apr. 15, July 15 and Oct. 15.) Persons joining or renewing must have their application into the Greensboro P.O. Box by those deadlines to receive the next upcoming Journal. Memberships received after deadline will not receive a REPEATER JOURNAL until the next issue comes out some 3 months later. Memberships received at hamfests will receive a current REPEATER JOURNAL as long as supplies are available.

The CVRA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of CVRA-Southeastern Repeater Association, Inc. Permission is granted for use of CVRA REPEATER JOURNAL material, providing credit is given. The JOURNAL will swap newsletters with other Repeater Councils and News organizations on request. The CVRA REPEATER JOURNAL press run is 3,800 copies with circulation in excess of 3,500 copies and is entered as Third Class Mail at the Post Office in Greensboro, N.C. The Full and Associate Membership mailing addresss is CVRA-SERA, P.O. Box 5655, Greensboro, N.C. 27403. All news and Newsletter exchanges should be mailed to the Editor and Publisher: Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

COMMITTEE COMPLETES OFFICER NOMINATIONS

—by Charlie Durst, WA4WTX

The nominating committee has completed its nomination of officers for the 1982-83 term. In past years, the nominating committee was not established until the Shelby hamfest, which made only one Journal available during the nominating process. This year, President Lane Tarleton appointed the nominating committee several months prior to Shelby to allow coverage of the nominations in two Journals. A nomination form was printed in the August Journal and is printed again in this issue. Additional nominations can be submitted anytime before November 30, 1981 by submitting the form to the address listed at the bottom of the form. Nominees must be full members of CVRA-SERA.

The nominations submitted by the nominating committee are as follows:

President:	Don Morris	AB4J	Charlotte, N.C.
Vice President:	Carter Cogle	K4ARO	Petersburg, Va.
Secretary:	Maxine Barrett	N4ECA	Lookout Mtn., Tn.
Treasurer:	Ray Adams	N4BAQ	Knoxville, Tn.

Some information on the nominees is as follows:

Don Morris, AB4J, who resides in Charlotte, was first licensed as a novice in 1963. He was DL4SH in Germany in 1965. In 1978, Don got his extra class ticket. Don is chairman of the repeater committee for the Mecklenburg Amateur Radio Society and serves on the Board of Directors. He operates primarily 2 meter FM and low band CW. Don is controller for Stylecraft Packaging.

Don feels that "the direction of CVRA depends on its leaders and members". He is especially interested in linking of repeaters, the transfer of information between groups,and new technology areas such as packet transmission of data.

Carter Cogle, K4ARO, who resides in Petersburg, Virginia, is an old-timer when it comes to CVRA. He has served as both Director for the State of Virginia and Secretary of CVRA. Carter enjoys operation on FM from ten meters through 450 MHz. Carter calls K4ARO/RPT on 147.84-.24 in Petersburg his repeater home.

Maxine Barrett, N4ECA, from Lookout Mountain, Tennessee, is nominated for Secretary. Maxine has been around amateur radio for six years by being married to Doc, KC4EV. Two and a half years ago, she got her own license. She is an active member of the Chattanooga Tri-State F.M. Association and is in charge of securing dealers for the 1981 Chattanooga hamfest. She is a representative of KC4EV on 87-21.

Ray Adams, N4BAQ, of Knoxville, Tennessee, is our candidate for Treasurer. Ray is a Certified Public Accountant operating his own accounting firm in Knoxville. Ray was Knoxville Hamfest chairman in 1979, Vice President of The Radio Amateur Club of Knoxville in 1980, and currently on the RACK Board of Directors. He represents W4BBB on 90-30.

Being a CPA, Ray is very knowledgeable in tax laws and is interested in getting tax-exempt status for CVRA. He has been appointed by President Lane to fill the unexpired term of Carl Smith, N4AA, who recently resigned as CVRA Treasurer.

Remember, nominations can be submitted from the membership anytime before November 30 by submitting the nomination form printed in this Journal or the August issue. If no further nominations are received, these four candidates will be elected to serve CVRA-SERA for the next two-year terms.

A nomination form is conveniently printed in this issue of the Journal for use in making nominations. All nominations complete must be in the hands of the secretary by NOON, NOVEMBER 30, 1981.

NOVEMBER 30 DEADLINE FOR OFFICER NOMINATIONS

You as a Full Member of CVRA-Southeastern Repeater Association have one final chance to nominate your choice of one of the elective officers for CVRA-SERA. Elsewhere in the Journal you will find a nomination form which you can use to nominate a person of your choice for the office of President, Vice-President, Secretary or Treasurer, or all four. If you wish to nominate persons for more than one office, please duplicate the form and use one form for each person and office nominated. According to the bylaws, you must also get the signatures of 3 additional Full Members to validate your nomination. Upon completion of the form, send the form, along with a short biographical sketch of the person to the secretary whose name and address is listed on Page 2 of the Journal.

According to CVRA-SERA bylaws, the nominating committee has placed the names of one person to each elective office. (See separate story this issue.) If NO additional nominations are received by the secretary by noon November 30, 1981, the Board will declare the four nominees for the four offices elected by acclamation.

If any additional nominees are received prior to November 30 from the full membership, a ballot containing the names of all nominees will be mailed to each full member of the organization for their vote by choice. In December the Board will meet to open the ballots, and determine who has been elected to the four offices.

The newly elected officers will take office on January 1st and will be officially installed at the January Board of Directors meeting which will be scheduled by the new President upon taking over the organization.

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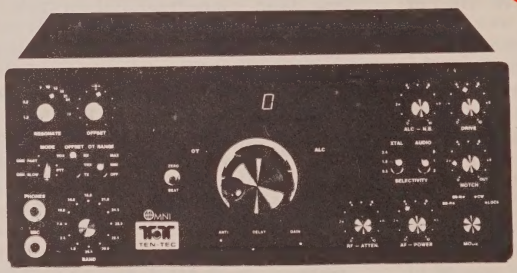

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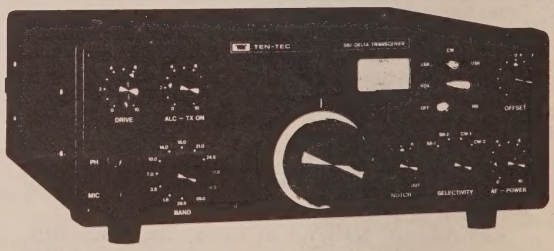

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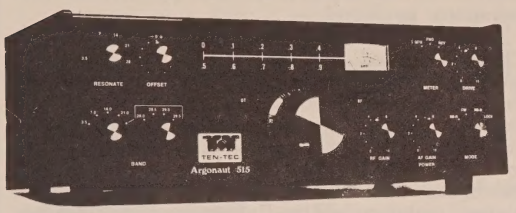

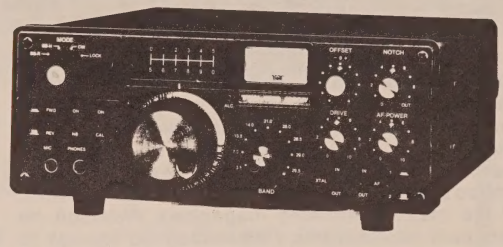

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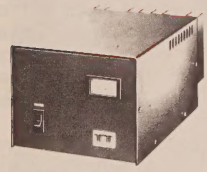

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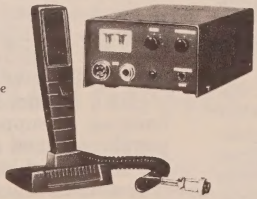

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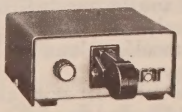

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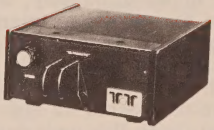

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TIME MACHINE MOBILE FOUR

—by Ralph Roberts, WA4NUO

(Editor's Note: Ralph Roberts, WA4NUO has a growing pile of magazine credits attributed to his writings. He prefers the "Science Fiction" type article and his published works total some 56 stories over the past three years. Ralph also writes computer related stories which have been published in several of the major computing magazines. Although he gets paid for his works, Ralph was kind enough to send the REPEATER JOURNAL a "freebie"... we hope you like it.)

Charlie Bentbrain, WX4XXX, was puttering around in his basement shack late one night when the idea hit him like a ton of bricks. Why not build a time machine and see what amateur radio would be like in the future? Of course, Charlie had been reading a lot of H.G. Wells lately.

Shouldn't be no problem, Charlie told himself, bet I got all the parts right here. He went over to his cluttered workbench and took stock. He had in various stages of completion such things as a Motorola 6809 based computer, a 4-1000A linear for seventy-five meters, a SWR bridge, an antenna tuner, and his wife's toaster which he was dissembling so he could repair it. Lots of good stuff piled in the floor too. That old BC-610 would provide a load of neat components, sure would beat hauling it to the next hamfest and back again.

Charlie hummed happily, brushed long stringy hair from his eyes, and started stripping parts which was why he had so many projects half-completed — he was a dike mechanic, always clipping from one project to use in another. But inspiration had reared its egg-shaped head and he planned to finish this undertaking.

And, with his parts gathered, Charlie drug his XYL's exercycle over to the bench and started drilling, soldering, and assembling. The exercycle would make a dandy framework for his time machine and he would hopefully be far in the future before she found out about it, otherwise she might rearrange his face. That thought caused him to pause and reconsider but he shrugged it off, the advancement for amateur radio and mankind in general was worth the risk. Sure would be handy to know what would happen in the years to come. He resumed work and the machine rapidly took shape.

A quick trip out to the garage and Charlie was back with the battery from his car. Now the time machine had a power source and he was ready to try it out. He mounted the exercycle and flipped switches. Lights rippled on all the miniboxes tied to the frame with discarded hunks of antenna wire and the old calculator display on the handlebars indicated the year 1979. Seems to work, Charlie decided with no little amount of surprise. He shrugged and determined to give the contraption a test spin. The year 2079 seemed a reasonable destination and he punched those numbers into the calculator keyboard.

An eeire humming sound filled the room and Charlie crossed his fingers, hoping the XYL wouldn't awaken and sink the whole project. A thought crossed his mind and Charlie hopped off the time machine, ran over to his workbench, and grabbed his two meter walkie-talkie. He clipped it to his belt and jumped back on the vibrating exercycle. Gotta have communications, he told himself and punched the final instructions into the junked calculator keyboard to cause the time machine to start moving forward in time.

The machine seemed to really be zipping along, it bucked and reared like an airplane in turbulence. Charlie clung to the handlebars desperately and could see nothing but brightly flickering white light. He finally decided that the strobe-like effect was the sun rapidly rising and setting as the days shot by in the time machine's fast climb through the future.

Charlie had barely become accustomed to temporal transportation when the machine slowed with a whine that died off into subsonics and came to a halt. The calculator's LED display blinked and indicated the year 2079. Oh boy, Charlie thought, I'm here!

Looking around, he saw that the machine was resting on a broad green expanse of something like transparent green plastic. It glowed softly with a light of its own and seemed to stretch as far as he could see ahead of and behind him. There was darkness to either side and he couldn't make out anything in those directions. His survey of his surroundings was interupted as a man zipped by at about a hundred miles per hour and seemingly hanging unsupported in mid-air. Several more people whizzed around Charlie, missing him and the time machine by narrow margins, before he was able to register any details. Finally he had it figured out, they were riding in some sort of force field — he could now see the barely lit outline of the field around their colorfully garbed bodies. My luck, Charlie told himself, to land in the middle of an interstate highway.

His thoughts were cut short as a faintly pulsing blue tinged force field roared up and rocked to stop beside him. A tall, stern looking man in a light blue jumpsuit with 'LEO' stitched on his breast pocket got out and stood looking down at Charlie still sitting astride the exercycle.

"All right, buddy," he said in a deep voice, "ya wanta move this junker of a time machine off the freeway?"

Continued On Page 38

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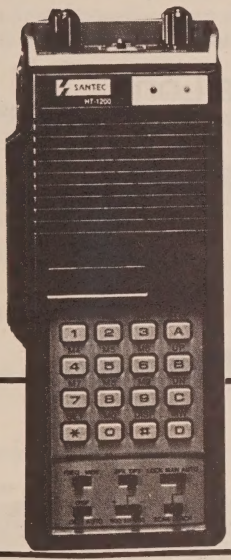

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CVRA-SERA OFFICER NOMINATION FORM

To CVRA-SERA Secretary:

The below named person(s) are nominated to office(s) listed below. The persons nominated have been contacted and have expressed a desire to serve if elected. The nominee is a FULL MEMBER of CVRA-SERA and is eligible to hold office in the organization. It is understood that this nomination from the floor, signed by myself and three other full members will be added to the nominating committee's list of nominees. If this nomination is the only one submitted for this office, that person shall be elected to the office. If more than one is nominated for any one office, an election will be held by written ballots mailed to every full member of CVRA-SERA.

Office person is nominated for _____
(President, Vice-President, Secretary or Treasurer)

If more than one nominee, use xeroxed copy or simular sheet of paper.

Name of nominee _____ **Call** _____

Address _____ **Phone** _____

Is A representative of _____ **repeater (a full member)**
(Call-City-Freq)

Person has been contacted and has agreed to serve to best of his ability if elected to the office nominated ( ) Yes
Include brief Biographical sketch of nominee and his achievements in Amateur Radio and /or CVRA-SERA. (Use separate sheet of paper)

This nomination certified by me _____ **Call** _____

member of repeater _____, **a full member of CVRA-SERA.**

Three other full members:

_____ **call** _____ **repeater** _____

_____ **call** _____ **repeater** _____

_____ **call** _____ **repeater** _____

Other full members must sign their signature personally.

Mail This Form with Attached Biography to Arrive No Later than NOVEMBER 30, 1981 to:
MAXINE BARRETT, CVRA-SERA SECRETARY, BOX 212, HICKORY RD, LOOKOUT MT., TENN. 37350

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Minutes - Director's Meeting

The annual meeting of the CVRA-Southeastern Repeater Association was held September 5, 1981, at the Governor's Inn, Shelby, NC. President Lane Tarleton called the dinner meeting to order at 6:45 P.M. The meeting lacked a quorum. A detailed Treasurer's report was submitted by Carl Smith, N4AA, showing a balance on hand as of August 31, 1981 of $5336.06.

President Tarleton announced that "Buff" Buffington, W4VGZ and Danny Hampton, K4ITL had resigned as Director and Vice Director of North Carolina and said that Ken Woodard, WA4BVW had agreed to serve as Director but the office of Vice-Director was still open.

President Tarleton read a letter from Carl Smith, N4AA, announcing his resignation as Treasurer due to personal problems. Many comments attested to Carl's good work and the fact that he will be greatly missed by the association. President Tarleton appointed Ray Adams, N4BAQ to serve the remaining four (4) months of Carl's term of office.

Charles Durst, WA4WTX, chairman of the nominating committee, announced the nominees for the 1982-83 terms of office. The nominees are:

President: Don Morris, AB4J
Vice President: Carter Cagle, K4ARO
Treasurer: Ray Adams, N4BAQ

The committee had not yet obtained a recommendation for Secretary. There were no nominations from the floor.

President Tarleton suggested combining the office of Secretary with either Vice President or Treasurer. After discussion, the idea was shelved for future consideration.

President Tarleton asked Debbie Kirby of Knoxville, TN if she would consider the nomination for Secretary for 1982-83. After some deliberation, she declined.

Wayne Williams, K4MOB initiated a discussion on the FM simplex time limit imposed during the ARRL VHF contests. After much discussion, it was generally agreed that these time limits were undesirable. John Kanode, N4MM, ARRL Vice-Director of the Roanoke Division, recommended that Wayne Williams write the ARRL VHF contest committee expressing his discontent with these restrictions.

Mike Williams, KC4AO asked if there was any interest in a CVRA-SERA sponsored VHF-FM contest. There was none.

Sam Kirby, WB4HAP gave reports from the Tennessee District saying that repeater membership percentages are slowly climbing and that interest is spreading westward through the state little by little.

A list of 10 principles and guidelines for frequency coordination was proposed by Sam Kirby, WB4HAP. After two minor changes, the list was adopted. The list will be included with some forms and be used as a package to mail to repeater owners wanting to coordinate with CVRA-SERA. This package should be available to Directors by the end of the year.

There were many items of interest discussed in the general meeting which followed the Director's meeting. Among these items were: 15 KHz split repeaters, cable TV interference, membership printout, membership renewal letter. No official action was taken in regard to these items.

Mike Williams, KC4AO asked if Directors should pro-rate dues for delinquent repeaters who re-join the association. After discussion, Wayne William, K4MOB suggested that this practice be followed.

Wayne Williams reminded Directors that "proposed" repeaters would be scratched from the Journal after one year if not otherwise notified.

President Tarleton and Wayne Williams presented the annual "President's Award" to Sam Kirby, Tennessee Director, for outstanding service to CVRA-SERA.

Meeting was adjourned at 9 P.M.

Sam Kirby, WB4HAP
Acting Secretary

REFLECTIONS OF OUTGOING CVRA-SERA PRESIDENT

Lane Tarleton, KC4CD, outgoing President of the CVRA-Southeastern Repeater Association reflected recently on his past two years in office.

"We have seen a steady growth in our organization," Lane said, "I was delighted to see our association grow with the additional two states of Tennessee and West Virginia."

He said that the new president of CVRA-SERA will find the job quite inspiring as he gains the knowledge that this organization is one of the finest, if not the best in the nation.

"Most of our Directors have done a fine job," Tarleton reflected, "Especially Sam Kirby, WB4HAP in Tennessee." "Sam had a tremendous job to do, since Tennessee is next to North Carolina as far as numbers of repeaters are concerned, and North Carolina ranks about 6th in the entire nation."

He said that Tennessee has made great strides in obtaining membership over the past two years, and are very steadly gaining on Virginia and South Carolina in both Full and Associate Membership.

"That's why I presented Sam with the 'President's Award' this year, said Lane, "He deserved it."

Tarleton said he will miss the organization, but he plans to keep up with what's going on, and will continue to actively support CVRA-SERA.

"We have a tremendous bunch of dedicated hams running this organization," he said, "They do a bang-up job, unequaled by anyone." "I would like to express my thanks and appreciation to all the Directors and appointees who have worked for me over the past two years, and I hope they will continue to be as dedicated to the new incoming president."

With two-meter frequencies slowly giving out, the job of the organization will get harder now, each year, but CVRA-SERA can handle it.

REPEATER LISTS WANTED

The Repeater Journal plans in future issues to begin listing Military Amateur Radio (MARS) repeaters. We ask that all Amateurs who are associated with such machines-Army, Navy or Air Force, please send the information to the Repeater Journal Editor.

We will maintain a list and ultimately publish a state-by-state listing like our two-meter repeaters.

When sending information, please list: (1) City (2) Callsign (3) Input & Output frequency (4) Any special features (5) Owner or trustee.

MARS repeaters CAN join CVRA-Southeastern Repeater Assn. as Full Members. When they do, their MARS repeater will appear in our regular Amateur repeater index.

CVRA-SERA COORDINATION POLICY AND GUIDELINES

(Editor's Note: The guidelines printed below have been adopted by the Board of Directors of CVRA-Southeastern Repeater Association, Inc. and will be placed into effect this Spring. It is felt that today, with two-meter spectrum space being a premium, more information must pass from prospective repeater owners to the CVRA-SERA. We can no longer tolerate someone choosing a frequency and placing a repeater on the air, just because "we like that frequency"... this will be a form of purposeful interference, and cannot be condoned, if we wish to keep our spectrum free from the problems experienced in many other heavily populated areas. Each of us as Amateur Operators should see that anyone putting on a repeater works with us, and gets coordination, for his prospective repeater frequency.)

CVRA-SERA Coordination Policy and Guidelines

1. CVRA-SERA State Directors, Vice-Directors, and Asst. Directors function in an advisory capacity, and must rely on voluntary cooperation from repeater operators in order to be effective. Toward that end, every policy and individual recommendation of the directors must be logically traceable to the goal of the most effective use of our limited frequency spectrum for the benefit of the largest possible number of amateurs. The recommendations must be devoid of individual preferences and arbitrariness.

2. The Directors recognize two fundamental motovations for the establishment of an amateur repeater. (1) As a service to other amateurs living or traveling in a service area, and (2) as an exercise in individual achievement on the part of the operator(s). Both of these motovations are equally valid and in the traditional spirit of amateur radio. However, in cases where these two rationales are in conflict, the motovation toward service must prevail over the individual achievement motovation. For example, the desire of an operator to set up a new repeater, largely for reasons of self-achievement, in an area already well-served by existing repeaters, must be accomodated in a way that does not detract from the existing area service in terms of co- or adjacent channel interference.

3. Repeater frequency assignments in all amateur bands allowing repeaters shall be in accordance with CVRA-SERA band plans. Rationale: CVRA-SERA band plans are very similar to ARRL band plans which are in overwhelming use throughout the USA, and though not perfect in hindsight, these plans are obviously workable.

4. Repeater frequency assignments shall be chosen with as much, if not more, weight given to the consequences of the transmissions of fixed and mobile stations on the input frequency, as compared to the consequences of the output signal of the repeater itself. The majority of repeater coordination problems arise from individual stations keying other repeaters in addition to the one intended.

5. A frequency assignment for a new repeater is made with respect to a specific planned location, height above average terrain, and expected coverage area. It is not an assignment to the repeater operator for unspecified use. Directional antenna systems, where appropriate, may be an essential part of a given assignment. A major facility change, affecting the coverage area of the repeater output or the area from which the repeater will attract input transmissions, is cause for a new frequency coordination request.

6. Just as with FCC broadcast allocations, "grandfathering" is an accepted principle. Existing repeaters have first rights to continued use of their frequencies and service area, and the effective use of an existing repeater should not be appreciably diminished by a new repeater. However, as with FCC practice, these rights have great weight but are not absolute. For example, an established wide-area repeater should tolerate minor loss of fringe coverage and occasional inadvertant keying to allow a new repeater to provide needed service at a location distant from the first. Grandfathering carries no special rights to make a major facility change without reconsideration of the frequency assignment, as stated in Policy 5.

7. When, in a given area, all 146 and 147 frequency pairs having 30 kHz separation have been used, those requesting new repeater frequencies will be urged to accept assignments based on the following priorities, listed in order:

(a) 144-145 MHz subband frequencies.

(b) 220 MHz frequencies. Rationale: Good equipment at reasonable cost is available for this least-used vhf band. Increased use of this band by amateurs will mitigate against loss of part or all of that band to other interests, a precedent that could have dire impact on other amateur bands as well.

(c) 440 MHz frequencies

(d) 146 and 147 MHz frequency pairs having 15 kHz separation from existing 30 kHz separated frequencies. The burden of proof of non-interference to or from fixed or mobile stations working the proposed repeater or existing adjacent channel repeaters rests with the repeater operator who insists on 15 kHz separation channels in preference to 144, 220, and 440 MHz alternatives. Any frequency assignment on 15 kHz spaced channels should be considered tentative until several months of operation with typical conditions reveals no significant interference problems. Rationale: most equipment presently available to amateurs does not have sufficient adjacent channel selectivity to accomodate typical fixed and mobile operation through repeaters spaced only 15 kHz apart, even when inversion of in and out frequencies with respect to adjacent channels is done.

A special situation exists when large metropolitan areas have utilized all 146 and 147 MHz 30 Khz spaced pairs, causing a lack of availability of such pairs in the suburban or rural areas surrounding the large city. In such situations, carefully chosen pairs on 15 kHz spacing from the city repeaters may well be properly assigned to the outlying areas without interference problems, and may in that circumstance be a preferable choice over 220 or 440 MHz frequencies, bringing two-meter service to an area precluded by the city repeaters.

8. The appropriateness of closed repeaters in some circumstances is recognized. However, requests for closed repeaters on the two-meter band, having wide coverage areas, will be discouraged. Rationale: Two-meter frequency pairs are a limited and valuable resource and should be made available to the majority of amateurs. It should be noted that the 220 MHz band offers a privacy to closed repeaters that is not possible on two-meters, greatly aiding in the problem of unwanted use of private repeaters.

9. The operator of a proposed repeater is expected to actively participate with the director in his area in the task of surveying the frequencies and coverage areas of existing repeaters, in order to select an appropriate frequency for the new repeater. In particular, the new repeater operator bears prime responsibility for whatever tests and listening periods are required at the proposed site. Logs of signals and locations heard at the proposed site, preferably for several weeks, may have great weight in frequency selection.

10. Each respective repeater operator wanting to avail himself of

Continued On Page 45

CVRA Journal Christmas Cover Story

'OLD MAN' CHRISTMAS

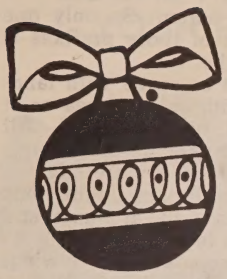
by Fred Hurteau, WD4SKH

'T' was the night before Christmas, and all through the house
not a creature was stirring, not even a mouse.
The children were snuggled up in their warm beds,
not sleeping, but listening for Santa instead.
With Ma sleeping soundly, I lay in a knot
trying to remember what is was I forgot
when all of a sudden I sat straight up in bed.
"My gosh!" I had almost forgotten my sked!
I put on my robe and hurried out back,
through the snow and the wind to my icy-cold shack.
I filled up the stove with paper and twigs.
I lit it, and then I turned on the old rig.
The warm glow of tubes seemed to chase off the chill,
as I filled with delight and imagined the thrill.
This would be my first contact with a rare 9J5!
(More wood on the fire and it soon came alive.)
I warmed myself up by the stove for a while,
then I tuned up the rig and sat back with a smile.
The band sounded good. All the signals were strong.
"It is Christmas," I thought, "What could possibly go wrong?"
I listened real close as our sked time drew near,
and then "There he is!" with my call loud and clear.
"It's him, really him, and exactly on sked."
But before I could answer the signals went dead!
"Oh no, NO, NO, NO!" I jumped up from my chair.
I turned all the knobs as I cried in despair.
"What happened, what happened?", I yelled in the night.
I checked all the bands. "Hey, something's not right!"
On 40 and 80 there wasn't a sound!
But what could have happened? I checked all around.
I keyed up the rig and much to my fright
the SWR was as high as a kite!
I jiggled the coax, rotated the switch.
"By George, I **will** find that dead-blasted glitch.
Murphy is not gonna mess up **this** sked."
I tried everything, but the bands were still dead.
"It's just something simple. I'll find it. I will!
If I hurry I just might can catch him on still."
But before I could move, 't'was a knock at the door.
Then two, and then three. Then two or three more.
"Must be the wind," I said, after my fright,
for no one could be out this cold winter night.
"Can't be my wife, for she would have come in,"
I thought to myself. Then the knocks came again.
I turned around slowly and walked to the door
to see what the wind had a-knocking once more.
I opened it slowly, and to my surprise,
there stood a short man with twinkling eyes.
He was fat, had a beard, and black shiny boots,
and was sporting a wild looking red flannel suit.
I slammed the door quickly and jumped back in fright.
"What kind of weird kook could be out there tonight?"

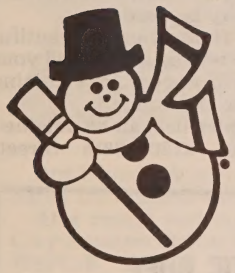
"You gotta be dreaming," I told myself. Then,
I decided to peek out the door once again.
Lo and behold, the man was still there,
the smoke from his pipe drifting off in the air.
Rubbing my eyes, I sank down to my chair.
I blinked and I blinked, but he'd moved not a hair.
I stared in amazement as he cracked a big grin.
He took out his pipe and said, "May I come in?"
By now I'd forgotten my 9J5 sked,
for I saw out the door, in the yard, was a sled
with reindeer and everything, just like in the tale.
By now he had noticed I was turning quite pale.
"Oh, my, don't be frightened," he said with alarm.
"My heavens, you know I will do you no harm.
You see, I just wanted to apologize now.
I'm afraid I've messed up your antenna somehow.
We were coming in right here just over the trees
and got caught in surprise in a sudden strong breeze."
He explained how his runner got caught in my beam,
despite his attempts to turn his swift team.
He seemed quite embarrased as he said "I must go.
I've quite a few errands to finish, you know.
It's really a shame I must rush off so fast.
I can't recall when I was on the air last.
You have a nice set up, and that rig is a gem.
Used to have one just like it, but I traded it in.
Kind of hard to get parts at the North Pole, you know,
and delivery from the factory is awfully slow.
Got a rig that was easier to fix up myself,
'stead of bothering the local electronics elf.
He already has enough work in his shop
to last 'til next Christmas without any stop.
My word, how I ramble. I really must fly.
Oops, pardon the pun." And then, winking one eye,
he smiled ear to ear as he stepped to the door,
and then turned and said, "Oh yes, there's just one thing more.
About your antenna, I must make that right.
Now tell dear old Santa just what you would like.
A TH6DXX beam might just do it,

with a Tailtwister rotor to hook up there to it.
Would that do to replace the one that I broke?"
I stared in amazement . . . . . ., and finally spoke,
"Uh . . . .w-well, . . . uh, sure, ... f-fine," was all I could say.
A big smile appeared as he turned to his sleigh.
"I'll put them inside, 'neath the tree," he called out.
Then his reindeer and sleigh were off with one shout.
Up to the roof, down the chimney, and back.

I swear I saw the whole thing from the door of my shack.
And then he was off swiftly into the night.
It was truly a graceful and beautiful sight.
I must have stood there with my mouth open wide,
and then, he was gone, and I turned back inside.
"I just don't believe it!", I said to myself.
"Reindeer? A sleigh? An electronics elf?
In the morning I'll wake up and it'll all be a dream,
and that TH3 Junior will still be my beam."
I closed up the shack, and still shaking my head,
I hurried on back to the house, and to bed.
I was tired and bewildered, and soon went to sleep.
Next morning I was 'wakened by the kids in a heap,

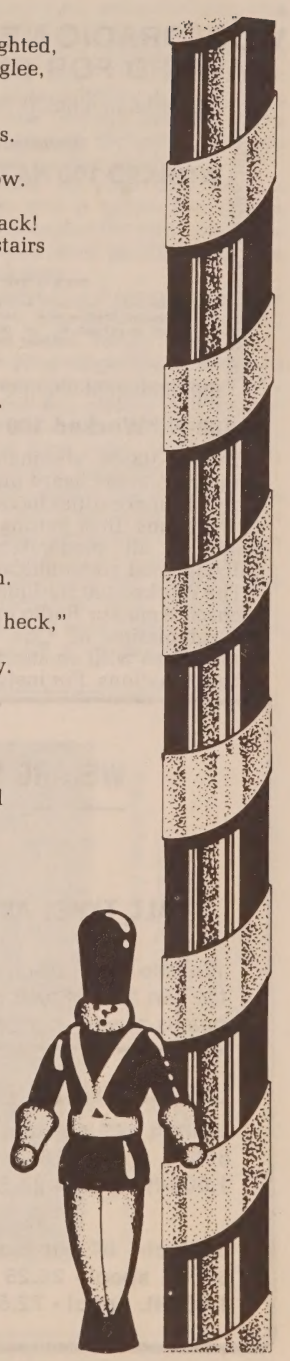


clambering around on our bed all excited,
"Oh, Mommy, oh Daddy, wake up!", they delighted,
"It's Christmas, it's Christmas!", they shouted with glee,
determined to wake up their Momma and me.
As morning crept slowly into my eyes
I mumbled, "Okay kids, come on now you guys.
Me and your momma are getting up now."
I soon found my robe and my slippers, somehow.
And then in an instant, the whole thing came back.
The reindeer and Santa, what he said in the shack!
"Oh my, what a dream," I thought, walking down stairs
while rubbing my eyes and scratching my hair.
Then suddenly I saw it, there under the tree . . . . .
a lo-o-o-ong skinny box. "But how can it be?"
"With my utmost apologies, to my friend Fred,
from Santa," the handwritten note on it said
With wild disbelief I sat on the floor,
and looked up to see my wife there in the door.
A frown on her face and her arms folded tight.
"Is **that** an antenna?" she asked me outright.
Just then the kids came in, and laughing with glee
started to poke around under the tree.
They shouted out "Oh boy, oh boy, Santa came!"
"You better believe it!", I boldly exclaimed.
Ma frowned even harder. I tried to explain
'bout the beam, about Santa, but all was in vain.
I was in hot water right up to my neck!
"If you buy that new beam, you're gonna catch heck,"
She had already told me last summer, when I
had mentioned first to her what I wanted to buy.
"We just can't afford it! My dishwasher's shot,
and you want a new beam? Why certainly not!"
I knew she was right, but what about now?
I had to explain it, but I didn't know how!
I'll tell he the truth, yeah! I tried to be cool.
But I knew my dear wife would think me a fool
trying to pull the wool over her eyes,
just like a kid, with a big bold-faced lie.
The kids never noticed Ma's icy cold stare

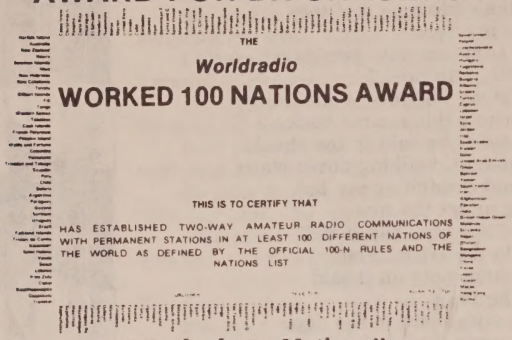


as they opened their Christmas gifts 'neath the tree there.
And then it came to me, "I'll show her out back,
the old beam that Santa wrecked over my shack."
I herded her to the back window, and there,
up fifty feet over my shack in the air
my TH3 Junior was twisted so bad,
I ne'er thought I'd say this, but boy was I glad!

I told her the story about Santa, and then,
her frown sort of started to turn to a grin.
She went back and looked at the note on the box,
then smiled and said, "Honey, you're sly like a fox.
I guess if you went to such trouble, it seems
you must have really really wanted that beam.
I guess you can keep it, but come first of the year,
you think you could get me that dishwasher, Dear?"
How could I refuse? I'm afraid I was stuck
twixt a rock and a hard place, or would you call it luck?
So now every Christmas I tell the same tale,
about Santa the ham, and every detail
how I got my big beam and my Tailtwister too.
But no one believes me. Now, honestly, do you?



WORLDRADIO NEWS HAS NEW AWARD FOR DX CHASERS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Rules: All contacts must be made with land-based stations. Contacts with ships at sea or at anchor or aircraft cannot be considered. All contacts must be made from the same country. Only contacts made after 1 January are eligible. Fraudulent confirmations or forged submissions will result in disqualification of the applicant and forfeiture of the application fee.

Your application must include the following: 1) A letter of transmittal requesting W-100-N; 2) A list of contacts showing station call sign, nation, date, band, and mode; 3) QSL cards in alphabetical order by prefix; 4) Application fee of $7.50 to cover the cost of the award and the return of your QSL cards by registered mail.

All applications should be addressed to: **Worldradio,** Awards Manager, 2120 28th Street, Sacramento, CA 95818.

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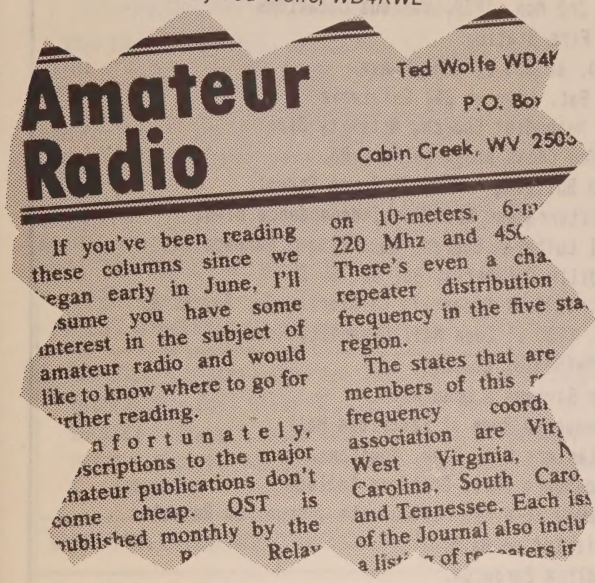

Amateur Radio

Ted Wolfe WD4
P.O. Bo
Cabin Creek, WV 250

If you've been reading these columns since we egan early in June, I'll sume you have some nterest in the subject of amateur radio and would like to know where to go for rther reading.

n f o r t u n a t e l y, scriptions to the major nateur publications don't come cheap. QST is ublished monthly by the p Relay

on 10-meters, 6-m 220 Mhz and 45 There's even a cha repeater distribution frequency in the five sta region.

The states that are members of this frequency coordi association are Vir West Virginia, N Carolina, South Caro and Tennessee. Each iss of the Journal also inclu a lis of re eters in

Don't overlook weekly newspapers as a possible outlet for amateur radio club news release.

At a recent meeting of our Kanawha-Fayette-Clay Amateur Radio Association (The Lick Knob W8FG/R 145.470 repeater club) at Pratt, we discussed the lack of newspaper articles and material on amateur radio at the local level. Often items submitted to daily newspapers never see print.

As I have been a radio and television reporter and news writer for a number of years, I decided to see if I could develop some ideas for more publicity for amateur radio. I sat down and wrote eight sample columns for newspaper submission.

Since the weekly newspapers are usually more receptive and always need material to fill their columns whereas the dailies are pressed for space for editorial content, I submitted the columns to the Editor of the weekly **Montgomery Herald.** The paper is published each Thursday in Montgomery, West Virginia, the home of West Virginia Institute of Technology, and only about 12-miles from my home at Cabin Creek.

The editor was receptive and accepted the columns for use on a "space available" basis. I receive no pay for this effort and consider it my contribution to publicizing and furthering amateur radio in our area. Since the column started in June only one week has passed without it being included in the paper.

At this point I'm not trying to write a column on a topical or week-to-week basis, but stick to generalities. However, having a regular column is convenient for inserting local club news items, especially their activities. I am now far enough ahead in columns to last through the end of the year. The columns are not technical and are targeted for the general reading public.

If you have someone in your club who is proficient with words and a typewriter this is something you might consider for your area as a way of spreading the word about amateur radio in a restricted geographical area.

As an example of topics I've discussed, here are some ideas for you — the difference between amateur and citizen's band radio; Field Day, Hamfests, how to use programmable scanners to listen to amateur two-meter activity; terms you hear hams using on the air; classes of licenses; upgrading; what repeaters are and how they work; the different facets of ham radio, such as cw, RTTY, SSTV, Moonbounce, satellites, etc.

I tailored alternate columns in the second series of eight submitted to fit the readership coverage area of the weekly by writing profiles on amateurs in the area, mentioning three hams in each column. This localized the subject for the readers and introduced some personality into ham radio. Getting such information is easy if you are active on 2-meters and have a lot of eyeball QSO's.

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NORTH CAROLINA CLUB MEETING CALENDAR

Information Supplied by Clubs

ASHEVILLE - W. Caro. ARS. Bus. 1st Thur., 1930; 2nd Mon. 1930, Various Locations
BENSON - Johnson ARS. 3rd Thur., 1930 at 50-210 Fire Station
BURLINGTON - Alamance ARC. 2nd & 4th Monday 1930, at 230 E. Summit Ave.
BURLINGTON - Alamance Repeater Assoc. Inc. Last Sat. 1900 at B&J Cafeteria
CARY - Cary ARC. 4th Thur. 1930 at White Plains Methodist Church, Activity Bldg.
CHARLOTTE - Mechlenburg ARS. Last Tue. 1930 at Red Cross Bldg. on Park Rd.
CHARLOTTE - Charlotte ARC. 4th Thur. 1900 - Club Building - WSOC-TV Tryon Street
CHARLOTTE - Friday Lunch Group. Fri. 1200 at Mediterranean Rest. on Independence Blvd.
CONCORD - Cabarrus ARS. 3rd Mon. 1930 at Kimball Lutheran Church, Aux. Bldg., Kannapolis
DURHAM - Durham FM Assoc. 2nd Tue. 1800 at Picadilly Cafeteria, So. Sq. S. S.
DURHAM - Triangle Radio Alert Network. 3rd Thur. 1800 at Picadilly Cafeteria, So. Sq. S. S.
EDEN - Rockingham City ARC. 1st Mon. & 3rd Thur. 1900 at Eden Mall Community Room
FAYETTEVILLE - Cape Fear ARS. 3rd Mon. 1900 at Methodist College
FRANKLIN - Franklin ARC. 2nd Thur. 1900 at Macon Savings & Loan Assn.
GASTONIA - Gaston City ARS. 1st Mon. 1900 at Community Room at Eastridge Mall
GREENVILLE - Brightleaf ARC. 2nd Tue. 2000 at Planters Nat. Bank, downtown.
GREENSBORO - Greensboro ARA. 4th Mon. 1830 at Founders Hall, Guilford College
GREENSBORO - Guilford Am. Soc. (GAS). 2nd Mon. 1830 at diff. restaurants announ. on Repeater
HIGH POINT - High Point ARC. 1st Mon. Western Sizzler on Main.
JACKSONVILLE - Onslow ARC. 2nd Tue. 1915 at Carolina Barbecue.
KANNAPOLIS - Cabarrus County ARS. 3rd Mon. 1930 at Kimball Memorial Lutheran Church, Activity Bldg.
LAURINBURG - Scotland County ARS. 1st Wed. at Cablevision Office
LEXINGTON - Healing Springs Mt. VHF Soc. Last Mon. 1930 at Burlington House Furn. Co., Pers. Off.
LUMBERTON - Lumberton ARC. 3rd Thur. 1930 at Robeson County Public Library
MAIDEN - Centralina ARC. Last Tue. 1900 at Citizens S&L, So. Hwy 321
MORGANTON - Morganton ARC. 1st Mon. 1930 at W. Piedmont Community College
NEW BERN - New Bern ARC. 3rd Thur. 1930 at Country Kitchen
N. WILKESBORO - Foothills ARC. 1st THur. 1930 at CAP Bldg. Wilkesboro Airport
RALEIGH - Raleigh ARS. 1st Wed. 1930 at West Community Room, Crabtree Valley Mall
ROCKINGHAM - Rockingham ARC. 1st Thur. at East Rock Fire Dept.
ROCKY MOUNT - Rocky Mount ARS. 3rd Thur. at Golden Corral in Rocky Mount
SALISBURY - Rowan ARS. 2nd & 4th Mon. 2000 at Salisbury City Hall, Main Street
SHELBY - Shelby Radio Club. 2nd Mon. 1830 at Hungry Bull Restaurant, Dutch Supper
SILVA - Smokey Mt. ARC. 2nd Tue. 1900 at Southwest Tech. Institute
STATESVILLE - Iredell County ARS. 2nd Thur. 1900 at Agriculture Bldg., Water & Tradd Sts.
WILMINGTON - VHF Society. 2nd Tue., Odd Months, 1930 at Cameron Ed. Bldg., New Hanover Mem. Hosp.
WINSTON SALEM - Forsyth ARC. 2nd Mon. 1930 at Red Cross Building

CLUB SECRETARIES! The Repeater Journal Will be glad to List your organization in the Club Calendar. Send information to The Editor, his name and address is listed on page 1 of the Journal.

BLUE RIDGE ARC NETS CHALLENGING, GOOD CHECKINS

—by Dot Bedford, K4AOH, Net Mgr.

The Blue Ridge Two Meter Net is called each night at 9 p.m. on the 01-61 repeater located on Caesars Head near Greenville, S.C.

Checkins have been increasing month by month, and for the month of July, a total of 2,280 persons checked into the net, exceeding the club goal of 2,000 checkins.

Among the fine Net Control Operators are: WA2DTE, Cliff; WA4NRU, Bland; K4TOY, Mullie; K4SUG, Ray; N4ENX, Sue; KA4IVW, Ed and W4FVS, Ed. Dot, K4AOH, net manager fills in when anyone cannot call the net on a particular night.

The net controllers have a contest going between themselves to try and get the most checkins.

Repeater coverage of the 01-61 machine is very good, with net checkins from South Carolina, North Carolina and Georgia. We are located in the Northwestern part of the State.

Being Net Manager, I am very curious if there is a two meter net elsewhere that can top the amount of checkins we had for the month of July??

SUPPORT JOURNAL ADVERTISERS

WEST VIRGINIA CLUB MEETING CALENDAR

Information Supplied by Clubs

OAK HILL - Plateau ARA. 1st Tue. Bd. of Education, Fayetteville, W. Va.
BLUEFIELD - East River RC. 1st & 3rd Mon. 2030 at Commercial Bank, Bluefield
BECKLEY - Black Diamond ARC. 3rd Thur. in Beckley
PRATT - The KFC (Kanawha-Fayette-Clay) ARA. 1st Thur. 1930 at Old Town Hall, Pratt
S. CHARLESTON - Kanawha Valley ARC. 1st Fri. 1930 at City Hall Annex, S. Charleston

VIRGINIA CLUB MEETING CALENDAR

Information Supplied by clubs

BLUEFIELD - East River RC. 1st & 3rd Mon. 2030 at Commercial Bank, Bluefield
CHARLOTTESVILLE - Albemarle ARC. 2nd Wed. 1930 at City Courthouse on 4th Street, NE
CHARLOTTESVILLE - University of Virginia ARC. every other Mon. Rm. C119, Thornton Hall
COVINGTON - VHF Communications Assn. 2nd Wed. 1930 at different Members homes
DANVILLE - Danville ARS. 1st & 3rd Fri. 1930 at American Red Cross Bldg., Main St.
FARMVILLE - Southwide ARS. 1st Thur. 1930 at Hampton-Sydney College, Farmville
GALAX - Briarpatch ARC. 4th Fri. 1900 at Galax Recreation Center
HAMPTON - Southern Peninsula AR Klub (SPARK). 1st & 3rd Wed. 1930 at VEPCO Building
LYNCHBURG - ARC. 2nd Fri. 2000 at Virginia Baptist Hospital Auditorium
MANASSAS - Ole Virginia Hams ARC. 3rd Mon. 2000 at Prince William Elec. Coop. Bldg., Manassas
MARTINSVILLE - Patrick Henry ARA. 3rd Tue. 1930 at Henry Cty. Admin. Bldg.
NEWPORT NEWS - SPARK. 1st & 3rd Wed. 1930 at VEPCO Building in Hampton
NORFOLK - Hampton Roads Radio Assn. 1st Wed. 1930 at Red Cross Headquarters, Norfolk
NORFOLK - Tidewater ARC. 2nd & 4th Sat. 1000 at Fort Norfolk, Hampton Blvd.
PORTSMOUTH - Portsmouth ARC. 2nd & 4th Thur. 432 Broad Street, Portsmouth
RAPPAHANOCK - ARA. 2nd Tue. Meeting places will be announced monthly.
RICHMOND - Virginia ARA. Last Fri. 2000 at Hermitage Auditorium, Westwood & Hermitage
RICHMOND -(RATS) 1st & 3rd Fri. 1930 at the Stone House in Forest Hill Park
RICHMOND - ARC. 2nd Fri. 2000 at the Stone House in Forest Hill Park
ROANOKE - Roanoke Valley ARC. 2nd & 4th Fri. 2000 at Colonial Ave., Presbyterian Church
VIRGINIA BEACH - ARC. 1st Thur. 1900 at Virginia Beach Recreation Center
WINCHESTER - Shenandoah Valley ARC. 1st & 3rd Fri. 2000 at Club Building on Grace St.

SOUTH CAROLINA CLUB MEETING CALENDAR

Information Supplied by clubs

ANDERSON - RC. 4TH Thur. 1930 Andsn. Cty. Arts Bldg. - Lunch Brk Fri. Noon, Quency's Steak House
CHARLESTON - Charleston ARS, Inc. at N. Charleston City Hall
CHARLESTON - Trident ARC. 3rd Wed. 1930 at N. Charleston City Hall
CHERAW - Chesterfield Cty. ARS. 3rd Tue. 1900 at Chesterfield Technical Inst.
CLEMSON - Clemson Univ. ARC. - (During School Year - Posted prior to meeting)
COLUMBIA - Columbia ARC. 1st Mon. 1930 at S. C. Electric and Gas Building
DILLON - Dillon Cty. ARC. Each Mon. Informal, 2nd Mon. Formal 1900 at Lion's Club Bldg., Wash. St.
EASLEY - Altamont ARC. 4th Tue. 1930 at First Federal Bank Building
FLORENCE - Florence ARC. 1st Tue. 1930 at Shoney's
FLORENCE - Florence FM Repeater Assn. 3rd Mon. 1930 at Florence Darlington Technical Center
GREER - Greer ARC. 1st Mon. 1930. Meeting location announced monthly.
GREENVILLE - Blue Ridge ARS. 1st Tue. 1930 at Civil Defense Headquarters, City Hall
GREENVILLE - The Dutch Lunch Club. Mon. 1245 at S&S Cafeteria
GREENWOOD - W. Carolina RS. 1st Mon. 1930 at Greenwood County Courthouse
KEEOWEE - Keeowee, Toxaway ARC. 3rd Tue. at Keeowee, Toxaway Visitors Center
LANCASTER - Lancaster Cty. ARC. 3rd Thur. 1930 at USC, Lancaster Campus
LAURENS - Caro. Computer and ARA. 2nd Fri. Gen. Mtg.; 4th Fri. Digital workshop
ORANGEBURG - Orangeburg ARC. 3rd Thur. 1930 at Elks Club, Hwy 301 N & 601 N
ROCK HILL - York Cty. ARS. 2nd & 4th Thur. 1930 at Club Room, Beaty Mall, Rock Hill
SUMTER - Sumter Repeater Assn. 3rd Mon. 2000 at County Office Building Conference Room
WALTERBORO - Coastal ARA. 2nd Sat. 1900. Meeting announced on 31/91 net.

TENNESSEE CLUB MEETING CALENDAR

Information Supplied by clubs

CHATTANOOGA - Tri-State FM Assn. 1st Fri. 1930 EST at American Red Cross Bldg.
CROSSVILLE - Plateau ARC. 3rd Sat. 1930 (CST) Art Circle Public Library
GALLATIN - Gallatin-Sumner Cty. Rpt. Assn. 1st Tue. each quarter announ. on 84-24
HUMBOLT - Humbolt ARC. 1st Mon. 1900 CST at Humbolt Public Library
JACKSON - Jackson ARC. 3rd Thur. 1900 CST at Jackson Public Library
KNOXVILLE - Fountain City ARC. 1st Mon. 1800 at Chubbies Restaurant, Broadway Shop. Cen.
KNOXVILLE - Radio AC of Knox Co. 3rd Thur. 1930 at Knoxville Fire Dept. Training Center
LAFOLLETTE - Walnut Mt. ARC. 3rd Mon. 1900 at Lafollette Recreation Center
MARRYVILLE - Smokey Mt. ARC. 4th Mon. 1930 - Hall Road
MEMPHIS - Memphis DX Soc. 3rd Tue. 1930 CST at Robillo's Restaurant
MEMPHIS - Midsouth ARA. 1st Tue. 1900 CST at Pink Palace Museum
MEMPHIS - Delta ARC. 2nd Tue. 1900 CST at White Haven Library
MEMPHIS - Raleigh Bartlett ARC. Last Thur. 1900 CST at Woody's Restaurant, Bartlett
NASHVILLE - Radio Amateur Tele. Soc. (RATS). 2nd Mon. 1930 CST at Metro CD Off. (Courthouse)
NASHVILLE - Nashville ARC. 3rd Thur. 1930 CST at Lock Two Park
NASHVILLE - Tenn. Civil Defense ARC. 1st Thur. 1930 CST at National Guard Armory
OAK RIDGE - Oak Ridge ARC. 2nd & 4th Mon. 1930 at Oak Ridge Civic Center
ROAN COUNTY - Roan Cty. ARES Club. 2nd Tue. 1930 at Old Pond Grade School, Rockwood
SEVIERVILLE - Sevier County ARC. 3rd Thur. 1930 at Presbyterian Church

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We can also supply ½ and 7/8'' hard line in aluminum or copper. We also have a limited stock of hard line connectors. If we do not have the connectors you need, they can be supplied within approximately ten days.

If you want or need something not listed above, call us, we may have it or can get it for you. All of the above items are standard stock items and we will try to fill your order promptly. We have a limited variety of utility pole hardware and can supply utility poles in the Greensboro, N. C. area only. Call us if you have a problem, we will design a system for you.

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TWO DIRECTORS WORK UP FREQUENCY COORDINATION FORM

—Mike, KC4AO & Sam, WB4HAP

An official CVRA-SERA frequency coordination policy was adopted at the annual meeting in Shelby this past month. The policy contains 10 more or less specific guidelines which will help the CVRA-SERA Directors make decisions on frequency coordination.

This policy was originally drafted in 1977 by Bob Dilworth, W4LQE, and modified and updated for use by our Association just recently.

Along with the policy guidelines of the Association will be official forms to help prospective repeater owners communicate with coordinators and to help coordinators communicate with one another.

The forms have not been completed, but are expected to be ready by the January 1982 Directors meeting. The Directors should be presented with a "package" that can be mailed to prospective repeater owners who wish to coordinate a frequency.

Any Directors having input they would like for Sam or Mike to consider in the package coordination form, they are requested to send the ideas to both Directors, whose names and addresses are listed on the back cover under Virginia and Tennessee Director.

It was felt by the Association now that our two-meter spectrum is full, guidelines were needed as well as more specific information when trying to coordinate a repeater frequency. To continue maintaining as near interference-free areas on two-meters as possible, more cooperation and coordination must be provided by EVERYONE who plans to put on a repeater ANYWHERE. Choosing a frequency at random after scanning down the index, and placing a repeater on the air just doesn't work anymore.

(Editor's Note: The new CVRA-SERA coordination guidelines are printed elsewhere in this issue of the REPEATER JOURNAL.)

SERA Financial Report as of August 31, 1981

INCOME	Total 81	Total 80	Net Change
Advertising	2872.95	1820.65	1052.30
Associate Memberships	5716.96	5193.50	523.46
Full Memberships	954.00	799.00	155.00
Miscellaneous	16.84		
Total to Date	9470.75	7813.15	1657.60
EXPENSES			
Journal Mailing	1236.92	800.00	436.82
Journal Printing	3781.71	6300.38	2518.37*
Officer/Directors	441.69	351.51	90.18
McLaurin/Bartlett	653.60		
Postage	365.48	600.00	234.52
Miscellaneous Printing	257.51	425.75	168.24
Miscellaneous Expenses	140.03	63.72	76.31
Returned Checks	28.25		
Total Expenses to Date	6905.19	8541.36	1636.17*

*These figures do not reflect billing for the August Journal

Beginning balance 1981	2433.79
McLaurin/Bartlett carry-over from 1980	336.71
1981 Income to date	9470.75
1981 Expenses to date	(6905.91)
Cash on Hand 8/31/81	$5336.06

This Report Constitutes My Final Report as Treasurer of CVRA/Southeastern Repeater Association, Inc.

Carl E. Smith, N4AA

N. GEORIA REPEATERS - HOW ABOUT JOINING US!

—by Wayne C. Williams, Editor

Over the past couple of years, there has been much interest on part of the Northern Georgia area to join the CVRA-SERA. We have numerous Associate Members (repeater users) and several Full Members (Repeater owners) presently.

If any repeater group is interested in organizing a campaign to form a District in the Northern Part of Georgia, please contact me. We will be happy to supply you with materials, letters, explanations and how our organization works for you.

We do not want to circumvent any Repeater Council operating from that area by any means. We just offer our resources, our Repeater Journal as a vehicle of information, and our experience from over 10 years in the business of coordinating mass areas of repeaters.

A district in Northern Georgia to be formed would require the intent of 10 different repeater groups to join as Full Members. Along with a letter of intent, a geographical District should be outlined, and submitted to CVRA-SERA for approval. Upon approval, the group would then go about the business of electing a Director and Vice-Director who would actually run CVRA-SERA in the Northern Georgia District.

We do not feel CVRA-SERA would infringe on your activities in any way, actually you would find we could be of some help by helping your leaders with our experience.

So, those of you who have expressed an interest, round up a few more and give us a call, let's discuss things.

FIRST SOUTH CAROLINA "TALL TOWER"

by Jimmy Walker, WD4HLZ

On the afternoon of May 22, 1981 about 5:20 PM KA4BGA/R, soon to become NN4N/R, machine became operational from the WPDE-TV tower on the banks of the Little Pee Dee River near Dillon, South Carolina. This was a dream come true for the many amateurs who devoted time and money for a project of this magnitude.

The story begins August 11, 1980 at which time a proposal was presented to station WPDE-TV. The objective of the amateurs involved was to install a 2-Meter repeater at approximately 1500 feet. Primary function would be a major communication station in the Amateur Radio Emergency Service (ARES) with a secondary function of providing every day communications for the amateur community. Jerry Condra, Vice President and General Manager of WPDE-TV, agreed on November 3, 1980 that a donation of their facilities would benefit the public.

The desire of all amateurs involved in the project was to build an organization that would include individuals and clubs joined together to enhance the image of amateur radio in the public eye. As a result the Greater Pee Dee Radio Society, Inc. was born. The first meeting was held July 12, 1981 in Florence, South Carolina.

Standing at the base of the tower, Ben Byrd (WD4EDM), Dan Mobley (KA4BGA), Jay Leggett (KA4BFX) and myself (MD4HLZ) were going over the checklist for the final time. Gene Black, chief engineer, had given the go-ahead at 4:15 PM the previous day and preparations for this moment were very hetic. By 12:30 PM, the machine was mounted on the platform at the 1500 foot level and power applied. As the antenna was being mounted at the 1600 foot level a major problem develops. Working dimensions of the tower leg were off by ½ inch and the antenna brackets would not fit. As 5:05 PM approached, this setback was overcome and the entire crew was on the platform setting the transmitter output. At 5:20 PM, North and South Carolina amateurs knew 145/745 was operational adn further adjustments were impossible.

A word of thanks to Danny Hampton (K4ITL), Norbert Ingram (WB4UBU) and Dick Crumley (W4YJR) for assisting Tommy Walker (NG4S) in resolving the audio problem which was put to rest June 17. In addition, Olin McDaniel (W4PFZ) did a superb job in tuning the duplexors for the machine. A special tribute must go out to Danny (K4ITL) in being an "answer-man" for questions involving "tall tower" communications. The Members of the Greater Pee Dee Radio Society extend our "thanks" to all amateurs for "checking-in" and giving signal reports so a profile could be made of the coverage area.

Facts on the machine:

1) **GE MASTR II Receiver**
2) **GE PROGRESS LINE Transmitter**
3) **Amateur built Duplexor (homebrew)**
4) **DECIBEL DB-224 and DB-230 Antennas**
5) **MARK 3C Controller (microprocessor)**
6) **Power out of duplexor - 30 watts**
7) **Antenna center of radiation - 1620 feet**
8) **Autodial, Autopatch, Reverse Patch (control operator only)**

INSTANCES OF CABLE INTERFERENCE

—by Wayne C. Williams, K4MOB

We are hearing more instances of Amateur repeaters being interfered and jammed by Cable TV. Repeater owners report instances where cable TV is actually keying up two-meter repeaters. Other instances where a cable signal can be heard on repeater outputs.

As you know, cable TV corporations have authority to use Amateur VHF frequencies as a carrier in their cable systems. The FCC limits the outside emmissions on these cables so as not to cause any interference to Amateur systems, as well as public service systems which also are on frequencies used by cable systems.

According to Jerry Freeman, engineer-in-charge of the Norfolk, Va. Field Office FCC, the burden is on the cable company not to cause any harmful interference to any outside licensed service.

Freeman suggests that any Amateur group having problems with cable companies to document interference, describe the problem and send full information to his office in Norfolk. The ARRL has also requested Amateurs send them instances of cable problems.

The cable companies obviously are not purposely interfering and in some instances are unaware they are radiating harmful signals. In most cases, direct contact with the companies involved by the Amateur groups can get the problems solved. But whenever you do plan contact with them, have documented proof and evidence that it is indeed the cable company's problem.

Freeman said he has seen several instances where amateurs complained about cable interference to their two-meter systems, and the problems turned out to be converters on their TV sets, some owned by the cable companies, and some privately owned.

In every instance, check carefully, get someone else to verify your problem, document carefully and then file your complaint, first to the cable TV company.

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ROANOKE VALLEY ARC ELECTS NEW OFFICERS

—by Ben Burch, N4FHL

The Roanoke Valley ARC (Va.) held elections for 1981-82 officers recently. They are: Pres. - Mark Witt, NN4I; Sec. - Ray Pillow, WA4FGJ, Treas. - Ken Ballard, WD4MOO; Activities Director - Ben Burch N4FHL; Equipment Director - Bob Anderson, K4UMK; Education Director, Rick Cook, AB4U and Publicity Director - Dave Hill, WA8PDJ.

The club reports their annual Mayfest (Hamfest) will be held Sunday, May 30th 1982 at the Roanoke Civic Center. Last year was noted to be one of their best attended hamfests in years and even the new Civic Center location was well crowded by afternoon.

TENNESSEE COORDINATION OUTLINED IN SECTION MAP

Sam Kirby, WB4HAP, Tennessee Director has drawn a section map of the Tennessee District. He said each section is covered by one of his Assistant Directors or his Vice-Director. The sectional map is printed in this issue of the Journal for Tennessee Amateurs to inspect and see which section their particular area falls in.

Kirby said each section will be well represented by a person living in the area and who is totally familiarizing themselves with the repeaters, conditions, frequencies and terrain.

Although the Director has final say-so over the actual coordination the assistants and Vice-Director are a valuable aid in advising him on proposed frequencies from their section of the State.

Kirby said the Westernmost counties of Tennessee are being coordinated through the Tennessee Repeater Council and Amateurs in that area should contact David Wolfe. (See map for actual section detail).

"This should help considerably in our coordination," said Kirby, "Our state is very long East to West and it has been a problem for a person in one area to have knowledge of another area 400 miles away, yet in the same District." "These new section borders will help us be versed in all aspects necessary to provide good coordination for our district."

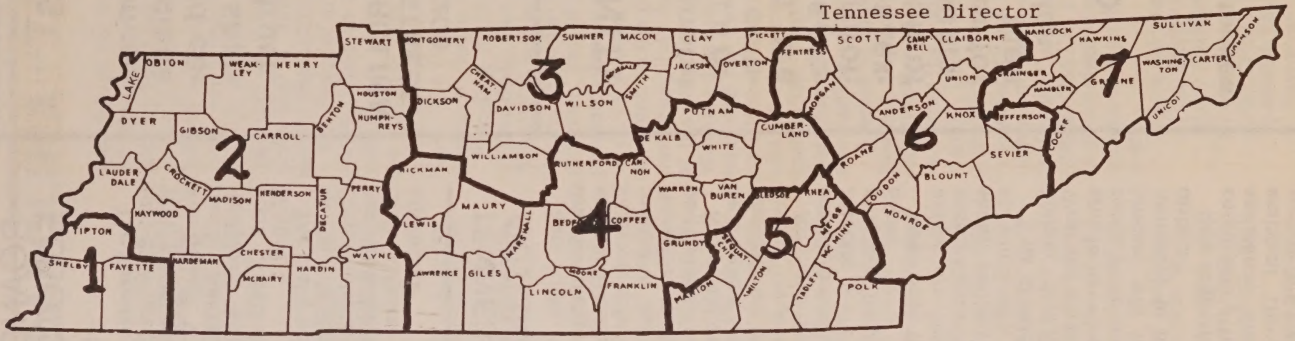
Sam suggests Tennessee amateurs who wish to coordinate a repeater frequency, or request any assistance through CVRA-SERA, contact the assistant Director representing the particular section in which he is located. All representatives are listed on the back of the Journal under Tennessee.

Dear Tennessee Repeater Owners and FMer's:

In an effort to keep you informed of the progress of CVRA-SERA within our fine State, I offer you this map. These volunteer frequency coordinators not only work with new repeater owners, but are qualified and willing to help with other repeater-related problems. They can do their job best when they are kept informed. Please contact them occasionally. If for no other reason, to let them know what's going on in your area. The coordinator's phone numbers are listed on the back of the Repeater Journal.

Although CVRA-SERA has a good line of communication with the Tennessee Repeater Advisory Committee, It is my hope that the Western part of the State will soon join forces with CVRA-SERA making our State unified in the coordination effort.

Sam Kirby WB4HAP
Tennessee Director



AREAS 1 & 2, Contact:
Tennessee Repeater Advisory Committee
Dave Wolfe WA4VVX
77 Lakewood Drive
Jackson, Tennessee 38301

AREAS 3 thru 7, Contact CVRA-SouthEastern Repeater Association

Area 3:
J. Tom Park WD4KWP
1198 Lock 4 Road
Gallatin, Tennessee 37066

Area 4:
Billy Gilley W4YXA
208 Rivermont Drive
McMinnville, Tennessee 37110

Area 5:
Tom Smith WA4ZOK
P. O. Box 116
Harrison, Tennessee 37341

Area 6:
Sam Kirby WB4HAP
Route 3, Majors Road
Corryton, Tennessee 37721

Area 7:
Cliff Hensley WB4NKL
Route 2, Box 25 C
Limestone, Tennessee 37681

WEST VIRGINIA REPEATERS

TWO METERS

ALDERSON	WR8AKZ	146.13	146.73	N	
BECKLEY	N8BZS	144.77	145.37	N	
BECKLEY	K8BO	146.34	146.94		O
BKLY/FLAT TOP MT	K8BO	146.25	146.85		A
BLUEFIELD	W8MOP	144.89	145.49		A
BLUEFIELD	WD8OGY	146.415	147.015		PA
BRIDGEPORT	WR8ALC	147.705	147.105	N	EA
BRIDGEPORT	K8VNQ	147.72	147.12		EA
BUCKHANNON	WD8LWI	145.93	147.93	N	
BUCKHANNON	K8WYH	146.25	146.85	N	
CHARLESTON	WR8AER	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CLARKSBURG	WB8ZVS	146.22	146.82		A
COAL MTN	WB8KAD	146.12	146.72	N	A
COTTAGEVILLE	WR8AKV	146.31	146.91	N	
DUNBAR	K8VKI	147.72	147.12		
EAST RIVER MTN*	WR4AXS	146.16	146.76	N	
ELKINS	WR8AOH	146.04	146.64	N	
FAIRMONT	W8JM	146.31	146.91		
FRANKLIN	W3RUA	147.945	147.345		
GRAFTON	K8VNQ	147.975	147.375		L
HUNTINGTON	WB8EZR	146.04	146.64	N	
HUNTINGTON	WR8AGH	146.16	146.76	N	
HUNTINGTON	KA8BKX	147.90	147.30	N	
KINGSTON/LICK KB	W8FG	144.87	145.47		
LEON	WB8NMT	147.78	147.18	N	
LOGAN	WR8ADD	146.37	146.97	N	
MARTINSBURG	WB8VUZ	147.855	147.255	N	
MCMECHEN	WA8ULB	146.31	146.91		
MCMECHEN	N8CFX	147.75	147.15		
MORGANTOWN	K8LG	144.83	145.43		
MORGANTOWN	WB8YZT	146.085	147.955	N	
MORGANTOWN	W8CUL	146.16	146.76		
MULLENS	WR8AKX	147.63	147.03	N	
NEW MARTINSVLLE	WR8ABY	146.34	146.94	N	
OAK HILL	KA8EMX	146.19	146.79		A
PARKERSBURG	WR8ACJ	146.37	146.97		PA
PARKERSBURG	WR8ACJ	147.96	147.36		
PARSONS	K8VNQ	144.73	145.33		L
PARSONS	K8VNQ	145.93	145.33		
PENNSBORO	WA8CND	147.90	147.30	N	
PRINCETON	WB8NRK	146.46	147.06		A
RAVENSWOOD	WA8USO	146.07	146.67		
RICHWOOD	K8VKB	146.34	146.94		
SCOTT DEPOT	K8SLI	147.87	147.27	N	
SPENCER	WA8SAK	146.01	146.61	N	
ST ALBANS	WB8GDY	146.40	147.00		
TERRA ALTA	WB8PHU	147.60	147.00		
WEIRTON	WR8AQA	145.34	146.94		
WELCH	WB8SXZ	144.85	145.45		
WHEELING	W8YFX	144.59	145.19	N	
WHEELING	W8JDH	146.16	146.76	N	

220 MHZ

HUNTINGTON	KA8BKX	222.54	224.14	N

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The By City Index Appears On Following Pages

TWO METERS

4.51 /5.11	HIGH POINT	NC
	NORTHWEST SECT.	SC
	KNOXVILLE	TN
4.53 /5.13	HODGES/GREENWOOD	SC
	GALAX	VA
4.55 /5.15	CHRYVL/BKRS MT	NC
	KNOXVILLE	TN
4.57 /5.17	LOUDON	TN
	MURFREESBORO	TN
4.59 /5.19	WHEELING	WV
4.61 /5.21	GASTON	SC
	KNOXVILLE	TN
	LEBANNON	VA
4.63 /5.23	CHARLOTTE	NC
4.65 /5.25	GREENSBORO	NC
	FISHERVILLE	TN
4.67 /5.27	HENDERSONVILLE	NC
	RALEIGH	NC
4.67 /5.27	MANASSAS	VA
4.71 /5.31	ROCK HILL	SC
	ATHENS	TN
	LEXNGTN/COLE MT	VA
4.73 /5.33	FISHER PEAK	NC
	BAMBERG	SC
	PARSONS	WV
4.75 /5.35	CHARLOTTE	NC
	BLAND	VA
	FALLS CHURCH	VA
4.77 /5.37	N. WILKESBORO	NC
	BECKLEY	WV
4.79 /5.39	SAURATOWN MT	NC
	SIMPSONVILLE	NC
	CHATTANOOGA	TN
	STANTONVILLE	TN
4.81 /5.41	WILLIAMSTON	NC
	GREENVILLE	TN
4.83 /5.43	NEWTON	NC
	NASHVILLE	TN
	GALAX	VA
	MORGANTOWN	WV
4.85 /5.45	ANDSN MT/NEWTON	NC
	LINCOLNTON	NC
	NEWPORT	NC
	BENTON	TN
	WELCH	WV
4.87 /5.47	LILLINGTON	NC
	KNOXVILLE	TN
	MOUNTAIN CITY	TN
	KINGSTON/LICK KB	WV
4.89 /5.49	RALEIGH	NC
	MCMINVL/SHT MT	TN
	MEMPHIS	TN
	BLUEFIELD	VA
	BLUEFIELD	WV
5.33 /CKET	MEMPHIS	TN
5.93 /7.93	BUCKHANNON	WV
5.93 /5.33	PARSONS	WV
6.01 /6.61	GREENSBORO	NC
	NEW BERN	NC
	CHELSEA	SC
	GRNVLE/CSRS HD	SC
	MYRTLE BEACH	SC
	CHATTANOOGA	TN
	NASHVILLE	TN
	BRUMLEY MT	VA
	LYNCHBURG	VA
	SPENCER	WV
6.025/6.625	HENDERSONVILLE	NC
	LAURINBURG	NC
	NEW MARKET	VA
6.04 /6.64	HENDERSONVILLE	NC
	RALEIGH	NC
	WINSTON-SALEM	NC
	SUMTER	SC
6.04 /6.64	CROSSVILLE	TN
	MADISON	TN
	MEMPHIS	TN
	FINCASTLE	VA
	MARION	VA
	RICHMOND	VA
	ELKINS	WV
	HUNTINGTON	WV
6.055/6.655	CONCORD/KANNAP	NC
	ALEXANDRIA	VA
	ALTAVISTA	VA
6.06 /6.66	CHARLESTON	SC
6.07 /6.67	BURLINGTON	NC
	FOREST CITY	NC
	COLUMBIA	SC
	BRISTOL	TN
	COOKEVILLE	TN
	LAFOLLETTE	TN
	NASHVILLE	TN
	BARREN SPRINGS	VA
	BRISTOL	VA
	LEXINGTON	VA
	WILLIAMSBURG	VA
	RAVENSWOOD	WV
6.085/6.685	GRIFTON	NC
	STATESVILLE	NC
6.085/7.955	MORGANTOWN	WV
6.10 /6.70	DUNN	NC
	COLUMBIA	SC
	GREENVILLE	SC
	LANCASTER	SC
	GREENEVILLE	TN
	MANCHESTER	TN
	MEMPHIS	TN
	UNION CITY	TN
	DANVILLE	VA
	NORFOLK	VA
6.115/6.715	SPRING LAKE	NC
	BLACKSBURG	VA
	STERLING	VA
6.12 /6.72	COAL MTN	WV
6.13 /6.73	RALEIGH	NC
	SALISBURY	NC
	WILMINGTON	NC
	C. PIED/SMPSNVLE	SC
	N. AUGUSTA	SC
	KNOXVILLE	TN
	LEBANON	TN
	MEMPHIS	TN
	HAMPTON	VA
	ALDERSON	WV
6.145/6.745	DILLON/PEE DEE	SC
	DYERSBURG	TN
6.16 /6.76	ASHVL/MT PISGAH	NC
	GREENSBORO	NC
	GRIFTON	NC
6.16 /6.76	CHARLESTON	SC
	COLUMBIA	SC
	NASHVILLE	TN
	CHARLOTTESVILLE	VA
	FOREST	VA
	EAST RIVER MTN*	WV
	HUNTINGTON	WV
	MORGANTOWN	WV
	WHEELING	WV
6.175/6.775	WYTHEVILLE	VA
	WYTHVL/SAND MT	VA
6.19 /6.79	LEVEL CROSS/GBO	NC
	ANDSN/SASFRAS MT	SC
	SUMMERVILLE	SC
	CHATTANOOGA	TN
	JOHNSON CTY	TN
6.19 /7.51	MEMPHIS	TN
6.19 /6.79	NASHVILLE	TN
	CHESAPEAKE	VA
	FAIRFAX	VA
	OAK HILL	WV
6.205/6.805	GASTONIA	NC
	WASHINGTON	NC
6.22 /6.82	DURHAM	NC
	ROARING GAP	NC
	WILMINGTON	NC
	GRNVLE/PARIS MT	SC
	LAKE CITY	TN
	MEMPHIS	TN
	WINCHESTER	TN
	COVINGTON	VA

	WINCHESTER	VA
	CHARLESTON	WV
	CLARKSBURG	WV
6.235/6.835	ASHEVILLE	NC
	WADESBORO	NC
	HAZEL MT	VA
	PETERSBURG	VA
6.25 /6.85	GOLDSBORO	NC
	HICKORY/BRT. MT	NC
	REIDSVILLE	NC
	FLORENCE	SC
	LAURENS	SC
	COVE MTN	TN
	MEMPHIS	TN
	NASHVILLE	TN
	PORTSMOUTH	VA
	STAUNTON	VA
	BKLY/FLAT TOP MT	WV
	BUCKHANNON	WV
6.265/6.865	HIGH POINT	NC
6.28 /6.88	RALEIGH	NC
	SHELBY	NC
	COLUMBIA	SC
	SAVANNAH(GA)	SC
	BRISTOL	TN
6.28 /6.88	MEMPHIS	TN
	NASHVILLE	TN
	OAK RIDGE	TN
	BRISTOL	VA
	RICHMOND	VA
	SALEM	VA
	CHARLESTON	WV
6.31 /6.91	AHOSKIE	NC
	ASHEVILLE	NC
	FAYETTEVILLE	NC
	LEXINGTON	NC
	WHITE HALL	SC
	SAVANNAH	TN
	SHORT MT.	TN
	FAIRFAX	VA
	FARMVILLE	VA
	JONESVILLE	VA
	RIPPLEMEADE	VA
	COTTAGEVILLE	WV
	FAIRMONT	WV
	MCMECHEN	WV
6.325/6.925	CHARLOTTESVILLE	VA
	DANVILLE(DCC)	VA
6.34 /6.94	BURGAW	NC
	CHARLOTTE	NC
	DURHAM	NC
	MANTEO	NC
	CHARLESTON	SC
	COLUMBIA	SC
	GREER	SC
	KNOXVILLE	TN
	MEMPHIS	TN
	NASHVILLE	TN
	HAMPTON	VA
	LYNCHBURG	VA
	RICHMOND	VA
	ROANOKE	VA
	BECKLEY	WV
	NEW MARTINSVLLE	WV
	RICHWOOD	WV
	WEIRTON	WV
6.355/6.955	ROCKINGHAM	NC
6.37 /6.97	KINGS MTN	NC
	MT AIRY	NC
	SMITHFIELD	NC
	ANDERSON/LOCAL	SC
	FLORENCE	SC
	SAVANNAH(GA)	SC
	ALTAMONT	TN
	KNGSPT/BAYS MT	TN
	MEDINA	TN
	MANASSAS	VA
	VIRGINIA BEACH	VA
	LOGAN	WV
	PARKERSBURG	WV
6.385/6.985	ALBEMARLE	NC
6.385/6.985	ROANOKE/POOR MT	VA
6.40 /7.00	HIGH POINT	NC
	JACKSONVILLE	NC
	MARION	SC
	PICKENS	SC
6.40 /7.54	KNOXVILLE	TN
6.40 /7.00	MEMPHIS	TN
	SUFFOLK	VA
	ST ALBANS	WV
6.415/7.015	BLUEFIELD	VA
	BLUEFIELD	WV
6.43 /7.03	ERWIN	NC
	ROCK HILL	SC
	LEXINGTON	TN
6.445/7.045	HOPE MILLS	NC
	ROBBINSVILLE	NC
	ARLINGTON	VA
6.46 /7.06	CHARLOTTE	NC
	ELIZABETH CITY	NC
	MEMPHIS	TN
	SOUTH BOSTON	VA
	PRINCETON	WV
6.475/7.075	BURLINGTON	NC
6.49 /7.49	AHOSKIE	NC
6.625/6.025	MARTIN	TN
6.655/6.055	BROWNSVILLE	TN
6.685/6.085	WAVERLY	TN
6.715/6.115	PULASKI	TN
6.865/6.265	HORNBEAK	TN
6.895/6.295	HARTWELL(GA)	SC
6.915/7.315	HENDERSONVILLE	TN
7.135/7.735	ALAMO	TN
7.255/6.835	LEXINGTON	SC
7.30 /7.90	MONROE	NC
7.60 /7.00	HIGH POINT	NC
	BLONTVILLE	TN
	CHATTANOOGA	TN
	CLARKSVILLE	TN
	HAYSI	VA
	TERRA ALTA	WV
7.615/7.015	SUMTER	SC
	NASHVILLE	TN
	FREDRICKSBURG	VA
7.63 /7.03	GREENSBORO	NC
	ROANOKE RAPIDS	NC
	MYRTLE BEACH, N	SC
	FAYETTEVILLE	TN
	HENDERSONVILLE	TN
	MEMPHIS	TN
	MORRISTOWN	TN
	SPRINGFIELD	TN
	WAYNESBORO	VA
	MULLENS	WV
7.645/7.045	STAUNTON	VA
	VIRGINIA BEACH	VA
7.66 /7.06	MACO	NC
7.66 /7.06	SUMTER/SHAW	SC
	GREENEVILLE	TN
	SHELBYVILLE	TN
	RICHMOND	VA
7.675/7.075	BURLINGTON	NC
	GREENVILLE	SC
	KNOXVILLE	TN
	STAUNTN/AFTON MT	VA
7.69 /7.09	GREENVL/ESTN NC	NC
	BLAIRSVILLE(GA)	SC
	ORANGEBURG	SC
	SPARTANBURG	SC
	MEMPHIS	TN
	SPARTA	TN
	BRIARPATCH MT	VA
7.705/7.105	MONROE	NC
	JOHNSONS MT	VA
	BRIDGEPORT	WV
7.72 /7.12	GAST/SPCR MT	NC
	ROCKY MOUNT	NC
	MYRTLE BEACH	SC
	N. AUGUSTA	SC
	COLUMBIA	TN
	MEMPHIS	TN
	OAK RIDGE	TN
	CULPEPPER	VA
	BRIDGEPORT	WV
	DUNBAR	WV
7.735/7.135	BREVARD/RICH MT	NC
	CHERAW	SC
7.75 /7.15	MORGANTON	NC
	RALEIGH	NC
	MONCKS CORNER	SC
	SIMPSONVILLE	SC
	MEMPHIS	TN
	NASHVILLE	TN
	OAK RIDGE	TN
	TAZEWELL	VA
	MCMECHEN	WV
7.765/7.165	GREENSBORO	NC
	GREENWOOD	SC
	WARRENTON	VA
7.78 /7.18	MT AIRY	NC
	SANFORD	NC
	CAROWINDS	SC
	GOOSE CREEK	SC
	CLEVELAND	TN
	MEMPHIS	TN
7.78 /7.18	NASHVILLE	TN
	BARREN SPRINGS	VA
	PETERSBURG	VA
	LEON	WV
7.795/7.195	LAKE TOXAWAY	NC
7.81 /7.21	GREENSBORO	NC
	LITTLE MT	SC
	WEST BROW(GA)	SC
7.81 /7.21	COOKEVILLE	TN
	JACKSON	TN
	HIGH KNOB	VA
	MCLEAN	VA
7.825/7.225	HILLSBOROUGH	NC
	MORRISTOWN	TN
7.84 /7.24	CARTHAGE	NC
	CHARLOTTE	NC
	EDEN	NC
	FOREST CITY	NC
	FRANKLIN	NC
	COLUMBIA	SC
	LANCASTER	SC
	GALLATIN	TN
	MEMPHIS	TN
	LYNCHBURG	VA
	PETERSBURG	VA
	WOODBRIDGE	VA
7.855/7.255	ASHEBORO	NC
	MARTINSBURG	WV
7.87 /7.27	SENSON	NC
	GASTONIA	NC
	WAYNESVILLE	NC
	CHARLESTON	SC
	LONG MT	SC
	SUMMERVILLE	SC
	GALLATIN	TN
	JOHNSON CTY	TN
	MEMPHIS	TN
	GUM SPRING	VA
	SCOTT DEPOT	WV
7.885/7.285	LYMAN	SC
	MARTINSVILLE	VA
7.90 /7.30	JACKSONVILLE	NC
	OXFORD	NC
	SYLVA	NC
	TUCKASEGEE	NC
	AIKEN	SC
	KNOXVILLE	TN
	MEMPHIS	TN
	NASHVILLE	TN
	BERRYVILLE	VA
	CLIFTON FORGE	VA
	FRANKLIN	VA
	HUNTINGTON	WV
	PENNSBORO	WV
7.915/7.315	UNION CROSS	NC
	CENTERVILLE	TN
	ALEXANDRIA	VA
7.92 /7.32	GRUNDY	VA
7.93 /7.33	FAYETTEVILLE	NC
	LENOIR	NC
	COLUMBIA	SC
	TOCCOA(GA)	SC
	COVINGTON	TN
	CROSSVILLE	TN
7.93 /7.33	KLMNRK/SALUDA	VA
	LEXNGTN/COLE MT	VA
7.945/7.345	SHELBY	NC
	GATE CITY	VA
	FRANKLIN	WV
7.95 /7.35	DANVILLE	VA
7.96 /7.36	BOONE	NC
	FRANKLIN	NC
	GREENVILLE	NC
	LUMBERTON	NC
	COLUMBIA	SC
	MEMPHIS	TN
	NASHVILLE	TN
	PARIS	TN
	PARKERSBURG	WV
7.975/7.375	BURNSVILLE	NC
	NASHVILLE	TN
	LYNCHBURG	VA
	GRAFTON	WV
7.99 /7.39	CHARLOTTE	NC
	EDEN/STONEVILLE	NC
	DAYTON/RHEA CTY	TN
	JONESBORO	TN
	MEMPHIS	TN
	NASHVILLE	TN
	PETERSBURG	VA

10 METERS

9.52 /9.62	KNOXVILLE	TN
9.60 /9.60	CHARLOTTESVILLE	VA

6 METERS

2.01 /3.01	HENDERSONVILLE	NC
	CHATTANOOGA	TN
	MEMPHIS	TN
	ABINGTON	VA
	LEXINGTON	VA
2.05 /3.05	RALEIGH	NC
2.07 /3.07	SOUTH BOSTON	VA
2.13 /3.13	ALEXANDRIA	VA
	DANVILLE(DCC)	VA
2.15 /3.15	HIGH POINT	NC
	KNOXVILLE	TN
	LYNCHBURG	VA
2.35 /3.35	CARY	NC
2.47 /3.47	HICKORY	NC
2.525/2.525	HENDERSONVILLE	NC
	HILLSBOROUGH	NC
2.58 /2.48	FAIRFAX	VA
2.64 /3.64	KNOXVILLE	TN
2.76 /2.525	KNOXVILLE	TN
3.525/2.525	NORFOLK	VA

220 MHZ

2.22 /3.82	FALLS CHURCH	VA
2.30 /3.90	COLUMBIA	SC
2.32 /3.92	HIGH POINT	NC
2.34 /3.94	ASHVL/MT PISGAH	NC
	HILLSBOROUGH	NC
	FAIRFAX	VA
	SUFFOLK	VA
2.36 /3.96	ROCKY MOUNT	NC
2.38 /3.98	NASHVILLE	TN
2.40 /4.00	LOCUST	NC
2.42 /4.02	FAYETTEVILLE	NC
	HICKORY	NC
2.44 /4.04	WINSTON-SALEM	NC
2.46 /4.06	SASSAFRAS MTN	SC
2.54 /4.14	PICKENS	SC
	HUNTINGTON	WV
2.70 /4.30	STATESVILLE	NC
2.74 /4.34	GALAX	VA
2.86 /4.46	KNOXVILLE	TN
3.00 /4.60	ASHEVILLE	NC
3.04 /4.64	RALEIGH	NC
	WINSTON-SALEM	NC
3.08 /4.68	CHARLOTTE	NC
3.10 /4.70	WINSTON-SALEM	NC
3.16 /4.76	SALISBURY	NC
3.18 /4.78	CHATTANOOGA	TN
3.20 /4.80	CHRYVL/BKRS MT	NC
3.22 /4.82	GREENSBORO	NC
	ALEXANDRIA	VA
3.28 /4.88	SAURATOWN MT	NC
3.30 /4.90	CHATTANOOGA	TN
3.34 /4.94	SYLVA	NC
	GREENEVILLE	TN
3.36 /4.96	MORGANTON	NC

440 MHZ

9.25 /7.25	CHATTANOOGA	TN
9.25 /6.27	ALEXANDRIA	VA
2.25 /7.25	ROCK HILL	SC
2.50 /7.50	ROANOKE/POORE MT	VA
4.225/9.225	MANASSAS	VA
4.75 /9.75	FAIRFAX	VA
4.85 /9.85	ANNANDALE	VA
4.90 /9.90	WOODBRIDGE	VA
7.05 /2.05	MEDINA	TN
7.25 /2.25	COVINGTON	VA
	SOUTH BOSTON	VA
7.75 /2.75	ROANOKE	VA
7.80 /2.80	JACKSON	TN
	MEMPHIS	TN
7.90 /2.90	HIGH POINT	NC
8.40 /3.40	MEMPHIS	TN
8.50 /3.50	TYSONS CORNER	VA
8.75 /3.75	ALAMO	TN
9.00 /4.00	ARLINGTON	VA
9.05 /4.05	WAYNESBORO	VA
9.10 /4.10	HILLSBOROUGH	NC
9.10 /4.509	CHARLESTON	SC
9.10 /4.10	LITTLE MT	SC
9.15 /4.15	LEXNGTN/COLE MT	VA
9.25 /4.25	CHARLOTTESVILLE	VA
	PORTSMOUTH	VA
9.30 /4.30	KNOXVILLE	TN
	MEMPHIS	TN
	WAYNESBORO	VA
9.35 /4.35	LYNCHBURG	VA
9.45 /4.45	GALLATIN	TN
	FALLS CHURCH	VA
9.50 /4.50	KNOXVILLE	TN
	MEMPHIS	TN
	LYNCHBURG	VA
	PETERSBURG	VA
9.60 /4.60	ALEXANDRIA	VA
9.775/4.775	NASHVILLE	TN
9.85 /4.85	CHARLOTTE	NC
	PETERSBURG	VA
9.875/4.875	NASHVILLE	TN
9.90 /4.90	ASHVL/MT PISGAH	NC
9.90 /4.90	GREENSBORO	NC
9.95 /4.95	BENTON/BEAN MT	TN
	STAUNTON	VA
	VIRGINIA BEACH	VA
9.975/4.975	NASHVILLE	TN

NORTH CAROLINA REPEATERS

TWO METERS

AHOSKIE	WR4AFB	146.31	146.91	N	PA
AHOSKIE	WB4YNF	146.49	147.49		AT
ALBEMARLE	WR4BBX	146.385	146.985		
ANDSN MT/NEWTON	WD4LCF	144.85	145.45		
ASHEBORO	WD4AIB	147.855	147.255		PA
ASHEVILLE	WA4QCO	146.235	146.835		A
ASHEVILLE	WA4KNI	146.31	146.91		A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76		
BENSON	WR4ARL	147.87	147.27	N	PA
BOONE	WA4KDB	147.96	147.36		
BREVARD/RICH MT	WD4IHH	147.735	147.135		
BURGAW	K4LZY	146.34	146.94		
BURLINGTON	WR4AKY	146.07	146.67	N	
BURLINGTON	W4VGZ	146.475	147.075		EA
BURLINGTON	WA4HBQ	147.675	147.075		EA
BURNSVILLE	WA4LLR	147.975	147.375		
CARTHAGE	W4NIW	147.84	147.24	N	
CHARLOTTE	W4BFB	144.63	145.23		
CHARLOTTE	WB4HTR	144.75	145.35	N	
CHARLOTTE	WR4AEU	146.34	146.94		
CHARLOTTE	WR4ALO	146.46	147.06	N	A
CHARLOTTE	WB4KPF	147.84	147.24		A
CHARLOTTE	WB4KOH	147.99	147.39		PA
CHRYVL/BKRS MT	WB4UDS	144.55	145.15		
CONCORD/KANNAP.	K4CEB	146.055	146.655		A
DUNN	WB4FXM	146.10	146.70	N	
DURHAM	WA4WTX	146.22	146.82		
DURHAM	WA4BFT	146.34	146.94	N	A
EDEN	WA4ACP	147.84	147.24	N	
EDEN/STONEVILLE	WA4QBG	147.99	147.39		
ELIZABETH CITY	WA4VTX	146.46	147.06	N	A
ERWIN	WR4ALY	146.43	147.03	N	
FAYETTEVILLE	WR4ANN	146.31	146.91		A
FAYETTEVILLE	W4LPL	147.93	147.33		
FISHER PEAK	WD4MDP	144.73	145.33		
FOREST CITY	W4TMT	146.07	146.67	N	A
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	WB4YAO	147.84	147.24		
FRANKLIN	N4AC	147.96	147.36		
GAST/SPCR MT	W4REW	147.72	147.12		A
GASTONIA	K4ZFD	146.205	146.805	N	L
GASTONIA	WD4KGM	147.87	147.27	N	
GOLDSBORO	K4CYP	146.25	146.85		A
GREENSBORO	N4AZM	144.65	145.25	N	
GREENSBORO	K4SNI	146.01	146.61		A
GREENSBORO	WR4AOD	146.16	146.76		
GREENSBORO	WD4IPZ	147.63	147.03		A
GREENSBORO	WR4AUA	147.765	147.165	N	
GREENSBORO	WR4ANL	147.81	147.21	N	
GREENVILLE	W4AMC	147.96	147.36		
GREENVL/ESTN NC	W4GDF	147.69	147.09		
GRIFTON	W4NBR	146.085	146.685		
GRIFTON	WR4ABP	146.16	146.76		O
HENDERSONVILLE	WA4KNI	144.67	145.27		
HENDERSONVILLE	WB4YAO	146.025	146.625		
HENDERSONVILLE	WB4YAO	146.04	146.64		L
HICKORY/BRT. MT	WR4ACM	146.25	146.85	N	
HIGH POINT	N4XO	144.51	145.11	N	C
HIGH POINT	KA4DHP	146.265	146.865		PA
HIGH POINT	K4AZA	146.40	147.00		LPA
HIGH POINT	K4AZA	147.60	147.00		LPA
HILLSBOROUGH	WA4WTX	147.825	147.225		A
HOPE MILLS	WB4TRW	146.445	147.045		
JACKSONVILLE	WD4FVO	146.40	147.00		PA
JACKSONVILLE	WR4ATW	147.90	147.30	N	
KINGS MTN	WB4GXY	146.37	146.97		
LAKE TOXAWAY	WR4AGH	147.795	147.195		
LAURINBURG	K4QWK	146.025	146.625		
LENOIR	KN4K	147.93	147.33		
LEVEL CROSS/GBO	K4VUW	146.19	146.79		
LEXINGTON	K4IZM	146.31	146.91		PA
LILLINGTON	WA4FKI	144.87	145.47	N	
LINCOLNTON	WD4PLY	144.85	145.45	N	
LUMBERTON	WR4BDQ	147.96	147.36		A
MACO	WA4LED	147.66	147.06		
MANTEO	W4PCN	146.34	146.94		PA
MONROE	K4BGU	147.30	147.90	N	
MONROE	WR4BBN	147.705	147.105		A
MORGANTON	K4RP	147.75	147.15		
MT AIRY	WB4UJH	146.37	146.97		EA
MT AIRY	WA4CQK	147.78	147.18	N	
N. WILKESBORO	K4ITL	144.77	145.37		
NEW BERN	WD4JMS	146.01	146.61		PA
NEWPORT	K4GRW	144.85	145.45		A
NEWTON	N4AWV	144.83	145.43	N	P
OXFORD	WA4JCS	147.90	147.30	N	CPA
RALEIGH	N4BEA	144.67	145.27		A
RALEIGH	N4BXF	144.89	145.49		A
RALEIGH	W4DW	146.04	146.64		
RALEIGH	K4BWC	146.13	146.73		A
RALEIGH	K4ITL	146.28	146.88		
RALEIGH	K4ITL	147.75	147.15		PA
REIDSVILLE	K4YFT	146.25	146.85		
ROANOKE RAPIDS	K4PUV	147.63	147.03		
ROARING GAP	WB4PZA	146.22	146.82		
ROBBINSVILLE	WB4ZQB	146.445	147.045		L
ROCKINGHAM	WA4ULA	146.355	146.955		
ROCKY MOUNT	WD4HIG	147.72	147.12		A
SALISBURY	W4EXU	146.13	146.73		
SANFORD	WB4EJU	147.78	147.18	N	A
SAURATOWN MT	WB4SNA	144.79	145.39	N	CL
SHELBY	KB4AF	146.28	146.88		
SHELBY	KB4AF	147.945	147.345		A
SIMPSONVILLE	WA4PPV	144.79	145.39	N	P
SMITHFIELD	WR4BBO	146.37	146.97		A
SPRING LAKE	WR4BCA	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685		PA
SYLVA	KA4V	147.90	147.30	N	
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315		
WADESBORO	W4USH	146.235	146.835	N	
WASHINGTON	WB4GMI	146.205	146.805	N	
WAYNESVILLE	N4SM	147.87	147.27		PA
WILLIAMSTON	WA4TKJ	144.81	145.41	N	
WILMINGTON	WR4AVF	146.13	146.73		
WILMINGTON	WR4AHL	146.22	146.82		O
WINSTON-SALEM	WA4GIC	146.04	146.64		A

220 MHZ

ASHEVILLE	NC4N	223.00	224.60		
ASHVL/MT PISGAH	WR4AEV	222.34	223.94		
CHARLOTTE	WB4KPF	223.08	224.68		
CHRYVL/BKRS MT	WB4UDS	223.20	224.80		
FAYETTEVILLE	W4EHF	222.42	224.02		
GREENSBORO	KZ4O	223.22	224.82	N	RL
HICKORY	WR4ACM	222.42	224.02	N	
HIGH POINT	K4AZA	222.32	223.92		LPA
HILLSBOROUGH	WA4WTX	222.34	223.94		L
LOCUST	WR4BBA	222.40	224.00		
MORGANTON	WB4PML	223.36	224.96		
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	KA4DAP	222.36	223.96	N	
SALISBURY	W4EXU	223.16	224.76		
SAURATOWN MT	W4RXG	223.28	224.88		
STATESVILLE	WA4WRS	222.70	224.30	N	
SYLVA	KA4V	223.34	224.94	N	
WINSTON-SALEM	WB4UGW	222.44	224.04	N	C
WINSTON-SALEM	WA4YHH	223.04	224.64	N	
WINSTON-SALEM	WA4GIC	223.10	224.70		R

440 MHZ

ASHVL/MT PISGAH	WR4ALE	449.90	444.90	N	
CHARLOTTE	WR4ALO	449.85	444.85	N	
GREENSBORO	WB4HZI	449.90	444.90	N	
HIGH POINT	K4AZA	447.90	442.90		L
HILLSBOROUGH	WA4WTX	449.10	444.10		

SIX METERS

CARY	WR4AVP	52.35	53.35	N	
HENDERSONVILLE	WB4YAO	52.01	53.01		
HENDERSONVILLE	WB4YAO	52.525	52.525		RB
HICKORY	WR4ACM	52.47	53.47	N	
HIGH POINT	K4AZA	52.15	53.15		L
HILLSBOROUGH	WA4WTX	52.525	52.525		RB
RALEIGH	K4ITL	52.05	53.05	N	

SOUTH CAROLINA REPEATERS

TWO METERS

AIKEN	N4ADM	147.90	147.30		
ANDERSON/LOCAL	WR4AIO	146.37	146.97		PA
ANDSN/SASFRAS MT	WR4AIO	146.19	146.79		
BAMBERG	WA4DFP	144.73	145.33	N	
BLAIRSVILLE(GA)	WA4EZN	147.69	147.09		LEA
C. PIED/SMPSNVLE	WD4BJY	146.13	146.73		EA
CAROWINDS	WR4ABK	147.78	147.18	N	
CHARLESTON	K4LWS	146.06	146.66	N	
CHARLESTON	K4ILT	146.16	146.76	N	PA
CHARLESTON	W4IVE	146.34	146.94	N	T
CHARLESTON	WR4BCP	147.87	147.27		A
CHELSEA	KB4GY	146.01	146.61		
CHERAW	WD4HEH	147.735	147.135		
COLUMBIA	N4EOY	146.07	146.67		
COLUMBIA	WR4	146.10	146.70	N	
COLUMBIA	WR4AYE	146.16	146.76		
COLUMBIA	K4AVU	146.28	146.88		
COLUMBIA	N4CZR	146.34	146.94		
COLUMBIA	N4CZR	147.84	147.24		
COLUMBIA	WB4VLY	147.93	147.33		
COLUMBIA	N4CZR	147.96	147.36		A
DILLON/PEE DEE	NN4N	146.145	146.745		
FLORENCE	W4ULH	146.25	146.85		
FLORENCE	WA4ISM	146.37	146.97		PA
GASTON	WB4NEP	144.61	145.21		PA
GOOSE CREEK	W4NAT	147.78	147.18	N	
GREENVILLE	W4AZT	146.10	146.70		A
GREENVILLE	WR4	147.675	147.075	N	PA
GREENWOOD	WB4UGA	147.765	147.165	N	PA
GREER	W4IQQ	146.34	146.94	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61		EA
GRNVLE/PARIS MT	W4NYK	146.22	146.82		PA
HARTWELL(GA)	KY4T	146.895	146.295		
HODGES/GREENWOOD	KB4YF	144.53	145.13		
LANCASTER	W4PAX	146.10	146.70		
LANCASTER	WB4BGF	147.84	147.24		
LAURENS	WA4UZA	146.25	146.85	N	A
LEXINGTON	WR4AGK	147.255	146.835	N	
LITTLE MT	K4AVU	147.81	147.21		
LONG MT	WA4JRJ	147.87	147.27	N	
LYMAN	KS4I	147.885	147.285		
MARION	W4YLT	146.40	147.00		
MONCKS CORNER	WA4DDK	147.75	147.15	N	A
MYRTLE BEACH	WD4JMT	146.01	146.61	N	
MYRTLE BEACH	WA4YEE	147.72	147.12	N	
MYRTLE BEACH, N	WA4JYR	147.63	147.03		PA
N. AUGUSTA	K4FKJ	146.13	146.73		
N. AUGUSTA	WR4ALS	147.72	147.12	N	
NORTHWEST SECT.	W4GZL	144.51	145.11		P
ORANGEBURG	WR4AQY	147.69	147.09	N	A
PICKENS	WB4YXZ	146.40	147.00		
ROCK HILL	WR4	144.71	145.31	N	
ROCK HILL	WC4ABD	146.43	147.03		PA
SAVANNAH(GA)	W4HBB	146.28	146.88		
SAVANNAH(GA)	W4HBB	146.37	146.97		A
SIMPSONVILLE	WA4SDT	147.75	147.15	N	R
SPARTANBURG	K4JLA	147.69	147.09	N	PA
SUMMERVILLE	WR4AUV	146.19	146.79	N	
SUMMERVILLE	WB4LET	147.87	147.27	N	EA
SUMTER	WR4AOI	146.04	146.64		
SUMTER	WA4UMU	147.615	147.015		PA
SUMTER/SHAW	W4VFR	147.66	147.06	N	
TOCCOA(GA)	KA4DIP	147.93	147.33		
WEST BROW(GA)	KC4EV	147.81	147.21		
WHITE HALL	WR4AQL	146.31	146.91	N	

220 MHZ

COLUMBIA	N4EOY	222.30	223.90		
PICKENS	WB4QHF	222.54	224.14		
SASSAFRAS MTN	KJ4X	222.46	224.06		

440 MHZ

CHARLESTON	N4SC	449.10	444.509	N	T
LITTLE MT	KC4YI	449.10	444.10		
ROCK HILL	KA4RFA	442.25	447.25		

TENNESSEE REPEATERS

TWO METERS

ALAMO	WB4EDS	147.135	147.735	N	
ALTAMONT	WR4AWN	146.37	146.97	N	
ATHENS	WB4GRC	144.71	145.31	N	C
BENTON	K4SIR	144.85	145.45	N	
BLONTVILLE	WA4KMG	147.60	147.00		
BRISTOL	K4ILW	146.07	146.67		A
BRISTOL	W4SZP	146.28	146.88		A
BROWNSVILLE	WA4ABU	146.655	146.055	N	A
CENTERVILLE	WB4PZB	147.915	147.315	N	
CHATTANOOGA	KB4TZ	144.79	145.39		A
CHATTANOOGA	K4CMY	146.01	146.61		
CHATTANOOGA	W4DSK	146.19	146.79		A
CHATTANOOGA	WA4ZOK	147.60	147.00		PA
CLARKSVILLE	WA4TEQ	147.60	147.00	N	
CLEVELAND	WR4AQV	147.78	147.18	N	
COLUMBIA	WR4AIX	147.72	147.12	N	
COOKEVILLE	WR4ANW	146.07	146.67	N	
COOKEVILLE	N4WS	147.81	147.21		
COVE MTN	WA4KJH	146.25	146.85		A
COVINGTON	WA4VXW	147.93	147.33	N	
CROSSVILLE	WR4AKQ	146.04	146.64	N	
CROSSVILLE	WR4BEL	147.93	147.33	N	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DYERSBURG	AA4HF	146.145	146.745	N	
FAYETTEVILLE	WR4BAQ	147.63	147.03	N	
FISHERVILLE	N4DRL	144.65	145.25	N	A
GALLATIN	WB4DLQ	147.84	147.24	N	

CVRA REPEATER SYMBOLS

Unmarked in First Code column-Full CVRA Members		RB	Remote Base System
N	NON Member CVRA	T	Tone Access Repeater
D	Delinquent Member	L	Linked Repeater
M	T-MARC Repeater	R	Radioteletype Rptr.
A	Open Autopatch	V	Television (SS or ATV)
PA	Private Autopatch	P	Proposed Repeater
EA	Emerg. Autopatch	C	Under Construction
		O	Off Air Temporarily

TENNESSEE *Continued*

GALLATIN	WA4YQC	147.87	147.27		
GREENEVILLE	W4ANB	146.10	146.70		
GREENEVILLE	WA4LYF	147.66	147.06		A
GREENVILLE	WB4TUO	144.81	145.41	N	
HENDERSONVILLE	WB4ZCK	146.915	147.315	N	RB
HENDERSONVILLE	N4WF	147.63	147.03	N	
HORNBEAK	WA4OXK	146.865	146.265	N	
JACKSON	W4WKZ	147.81	147.21	N	
JOHNSON CTY	WB4IKB	146.19	146.79		
JOHNSON CTY	WA4DIU	147.87	147.27		A
JONESBORO	WB4SQC	147.99	147.39		PA
KNGSPT/BAYS MT	W4TRC	146.37	146.97		A
KNOXVILLE	WB4JSD	144.51	145.11		R
KNOXVILLE	WA4KAV	144.55	145.15		
KNOXVILLE	K4KFD	144.61	145.21		A
KNOXVILLE	WB4GBI	144.87	145.47		
KNOXVILLE	WB4IOB	146.13	146.73		
KNOXVILLE	K4HXD	146.34	146.94		
KNOXVILLE	WA4TEM	146.40	147.54		A
KNOXVILLE	K4HXD	147.675	147.075		A
KNOXVILLE	W4BBB	147.90	147.30		
LAFOLLETTE	W4TZG	146.07	146.67		
LAKE CITY	WB4OAH	146.22	146.82	N	
LEBANON	WR4BBM	146.13	146.73	N	
LEXINGTON	WB4LGH	146.43	147.03	N	
LOUDON	WD4HQI	144.57	145.17		C
MADISON	WB4NTM	146.04	146.64	N	
MANCHESTER	WR4ACI	146.10	146.70		A
MARTIN	WA4ZQX	146.625	146.025	N	
MCMINVL/SHT MT	W4KKO	144.89	145.49		
MEDINA	K4BEZ	146.37	146.97	N	AL
MEMPHIS	WR4AZK	144.89	145.49		
MEMPHIS	WB4MQD	145.33	PACKET	N	
MEMPHIS	W4GYS	146.04	146.64	N	
MEMPHIS	WR4AOG	146.10	146.70	N	R
MEMPHIS	WR4AGR	146.13	146.73	N	
MEMPHIS	WR4ABS	146.19	147.51	N	
MEMPHIS	WR4AHO	146.22	146.82	N	
MEMPHIS	WR4AZK	146.25	146.85		
MEMPHIS	WA4ETE	146.28	146.88	N	A
MEMPHIS	K4BN	146.34	146.94	N	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WR4AXF	146.46	147.06	N	
MEMPHIS	WR4BCU	147.63	147.03	N	
MEMPHIS	WR4AWT	147.69	147.09	N	
MEMPHIS	WA4ETE	147.72	147.12	N	AT
MEMPHIS	WR5AII	147.75	147.15	N	
MEMPHIS	WR4AZK	147.78	147.18		
MEMPHIS	WD4APK	147.84	147.24	N	
MEMPHIS	WR4AZC	147.87	147.27	N	
MEMPHIS	WR4ASF	147.90	147.30	N	
MEMPHIS	WR4ATA	147.96	147.36	N	
MEMPHIS	WR4ASR	147.99	147.39	N	
MORRISTOWN	WB4OAH	147.63	147.03	N	
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MURFREESBORO	WB4LHO	144.57	145.17	N	
NASHVILLE	WB4HTX	144.83	145.43	N	
NASHVILLE	WA4PCD	146.01	146.61	N	
NASHVILLE	WB4NTM	146.07	146.67	N	
NASHVILLE	WB4QES	146.16	146.76	N	
NASHVILLE	WR4AFA	146.19	146.79	N	
NASHVILLE	N4TK	146.25	146.85	N	
NASHVILLE	WB4QES	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WB4JVP	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WB4ZSA	147.90	147.30	N	A
NASHVILLE	WB4NTM	147.96	147.36	N	
NASHVILLE	WB4JTN	147.975	147.375	N	
NASHVILLE	WB4DLQ	147.99	147.39	N	
OAK RIDGE	W4SKH	146.28	146.88		A
OAK RIDGE	K4EAJ	147.72	147.12		
OAK RIDGE	K4EAJ	147.75	147.15		R
PARIS	K4KLX	147.96	147.36	N	
PULASKI	W4JVO	146.715	146.115	N	
SAVANNAH	WB4DQU	146.31	146.91	N	
SHELBYVILLE	WR4AQM	147.66	147.06	N	
SHORT MT.	WR4AZF	146.31	146.91		
SPARTA	W4BSA	147.69	147.09		
SPRINGFIELD	WR4AGH	147.63	147.03	N	
STANTONVILLE	WA4TPA	144.79	145.39	N	
UNION CITY	WR4AUQ	146.10	146.70	N	
WAVERLY	NO4Q	146.685	146.085	N	
WINCHESTER	WR4AFH	146.22	146.82	N	

220 MHZ

CHATTANOOGA	K4VCM	223.18	224.78		A
CHATTANOOGA	WA4ZOK	223.30	224.90		
GREENEVILLE	WB4NKM	223.34	224.94		A
KNOXVILLE	WA4YON	222.86	224.46		
NASHVILLE	WB4ZSA	222.38	223.98	N	A

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
BENTON/BEAN MT	K4SIR	449.95	444.95	N	C
CHATTANOOGA	WA4ZOK	439.25	427.25		V
GALLATIN	WD4KWP	449.45	444.45		
JACKSON	WB4EPG	447.80	442.80	N	
KNOXVILLE	K4HXD	449.30	444.30		
KNOXVILLE	KB4NK	449.50	444.50		
MEDINA	K4BEZ	447.05	442.05	N	AL
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	WB4BDO	448.40	443.40	N	A
MEMPHIS	WD4APK	449.30	444.30	N	
MEMPHIS	WA4FNL	449.50	444.50	N	A
NASHVILLE	N4TK	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	

SIX METERS

CHATTANOOGA	WB4LRD	52.01	53.01	N	
KNOXVILLE	WB4IOB	52.15	53.15		
KNOXVILLE	WA4YON	52.64	53.64		
KNOXVILLE	K4HXD	52.76	52.525		
MEMPHIS	WR4AZK	52.01	53.01		

10 METERS

KNOXVILLE	K4HXD	29.52	29.62		C

VIRGINIA REPEATERS

TWO METERS

ALEXANDRIA	WD4PDP	146.055	146.655	M	
ALEXANDRIA	W4HFH	147.915	147.315	M	
ALTAVISTA	WA4ISI	146.055	146.655		
ARLINGTON	WA4YVN	146.445	147.045	M	
BARREN SPRINGS	WR4AFQ	146.07	146.67		
BARREN SPRINGS	K4HZS	147.78	147.18		
BERRYVILLE	WR4APE	147.90	147.30	M	
BLACKSBURG	WA4YRJ	146.115	146.715		
BLAND	N4AZJ	144.75	145.35	N	
BLUEFIELD	W8MOP	144.89	145.49		A
BLUEFIELD	WD8OGY	146.415	147.015		PA
BRIARPATCH MT	WR4AHR	147.69	147.09		

VIRGINIA

BRISTOL	K4ILW	146.07	146.67		A
BRISTOL	W4SZP	146.28	146.88		
BRUMLEY MT	WR4ATJ	146.01	146.61	N	
CHARLOTTESVILLE	WR4ATL	146.16	146.76		
CHARLOTTESVILLE	WR4ATL	146.325	146.925		
CHESAPEAKE	N4SD	146.19	146.79		
CLIFTON FORGE	K4QEL	147.90	147.30	N	
COVINGTON	WB4CAV	146.22	146.82	N	
CULPEPPER	WR4BCS	147.72	147.12	M	
DANVILLE	WR4BDN	146.10	146.70		
DANVILLE	WR4AHG	147.95	147.35	N	
DANVILLE(DCC)	WB4GJG	146.325	146.925		
FAIRFAX	W4LBL	146.19	146.79		PA
FAIRFAX	K4VYN	146.31	146.91		PA
FALLS CHURCH	W4AQD	144.75	145.35	M	
FARMVILLE	WB4NWP	146.31	146.91		
FINCASTLE	W4WIC	146.04	146.64		
FOREST	WR4ADY	146.16	146.76		EA
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015	N	
GALAX	WA4DFH	144.53	145.13		EA
GALAX	WA4ZIV	144.83	145.43	N	
GATE CITY	WD4GTA	147.945	147.345	N	
GRUNDY	K4HWQ	147.92	147.32	N	A
GUM SPRING	KB4GX	147.87	147.27		
HAMPTON	WR4ALW	146.13	146.73		
HAMPTON	WR4AFT	146.34	146.94	N	T
HAYSI	WR4AWR	147.60	147.00	N	
HAZEL MT	WD4CYZ	146.235	146.835	N	
HIGH KNOB	K4AXO	147.81	147.21	N	
JOHNSONS MT	WB4JBJ	147.705	147.105		LR
JONESVILLE	WA4OVC	146.31	146.91		
KLMNRK/SALUDA	WA4UAF	147.93	147.33		
LEBANNON	N4ATT	144.61	145.21	N	C
LEXINGTON	WA4WBD	146.07	146.67		
LEXNGTN/COLE MT	K4PQD	144.71	145.31	N	
LEXNGTN/COLE MT	K4PQD	147.93	147.33	N	
LYNCHBURG	WR4AXO	146.01	146.61	N	
LYNCHBURG	WA4RTS	146.34	146.94	N	
LYNCHBURG	K4QKR	147.84	147.24	N	L
LYNCHBURG	W4OSH	147.975	147.375		PA
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	W1CRO	146.37	146.97		PA
MARION	N4BIW	146.04	146.64		
MARTINSVILLE	AB4L	147.885	147.285		
MCLEAN	WD4IWG	147.81	147.21	M	R
NEW MARKET	WR4ATG	146.025	146.625	M	
NORFOLK	WB4LJM	146.10	146.70		
PETERSBURG	K4ARO	146.235	146.835		RB
PETERSBURG	K4SII	147.78	147.18	N	
PETERSBURG	K4ARO	147.84	147.24		
PETERSBURG	WR4AWC	147.99	147.39	N	T
PORTSMOUTH	N4PR	146.25	146.85	N	
RICHMOND	WB4QEY	146.04	146.64		
RICHMOND	WR4ACW	146.28	146.88	N	PA
RICHMOND	W4ZA	146.34	146.94		T
RICHMOND	WA4ECM	147.66	147.06	N	
RIPPLEMEADE	K4TUE	146.31	146.91		
ROANOKE	WR4AHT	146.34	146.94	N	AO
ROANOKE/POOR MT	W4CA	146.385	146.985		L
SALEM	W4PDL	146.28	146.88	N	
SOUTH BOSTON	WR4AYU	146.46	147.06		
STAUNTN/AFTON MT	W4PNT	147.675	147.075	N	LR
STAUNTON	WA4ZBP	146.25	146.85		
STAUNTON	W4WRN	147.645	147.045	N	
STERLING	WA4TXE	146.115	146.715	M	
SUFFOLK	WR4AKS	146.40	147.00	N	PA
TAZEWELL	WD4DZE	147.75	147.15	N	
VIRGINIA BEACH	WA4KXV	146.37	146.97		EA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
WARRENTON	WB4FJT	147.765	147.165	M	
WAYNESBORO	W4BLD	147.63	147.03		PA
WILLIAMSBURG	W4NTG	146.07	146.67	N	
WINCHESTER	W4RKC	146.22	146.82		EA
WOODBRIDGE	WB4FQR	147.84	147.24	M	A
WYTHEVILLE	WA4PDL	146.175	146.775	N	
WYTHVL/SAND MT	WA4EMS	146.175	146.775		

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	
FAIRFAX	K4GCM	222.34	223.94		
FALLS CHURCH	N4CHP	222.22	223.82	M	
GALAX	WA4DFH	222.74	224.34		
SUFFOLK	WA4JUO	222.34	223.94	N	C

440 MHZ

ALEXANDRIA	WR4AAG	439.25	426.27	M	V
ALEXANDRIA	W4HFH	449.60	444.60	M	
ANNANDALE	WR4AQG	444.85	449.85	M	PL
ARLINGTON	K8ZOA	449.00	444.00	M	L
CHARLOTTESVILLE	WR4ATL	449.25	444.25		
COVINGTON	WB4CAV	447.25	442.25	N	
FAIRFAX	K4JYF	444.75	449.75		
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
LEXNGTN/COLE MT	K4PQD	449.15	444.15	N	
LYNCHBURG	WB4DBB	449.35	444.35		L
LYNCHBURG	K4HEX	449.50	444.50	N	RB
MANASSAS	WD4JCE	444.225	449.225	M	L
PETERSBURG	K4ARO	449.50	444.50	N	
PETERSBURG	WA4MRJ	449.85	444.85	N	
PORTSMOUTH	K4MLY	449.25	444.25	N	
ROANOKE	WR4AFE	447.75	442.75	N	
ROANOKE/POORE MT	W4CA	442.50	447.50		L
SOUTH BOSTON	WB4YWH	447.25	442.25	N	C
STAUNTON	W4WRN	449.95	444.95	N	C
TYSONS CORNER	WB6GUS	448.50	443.50	M	
VIRGINIA BEACH	WA4KXV	449.95	444.95		
WAYNESBORO	W4BLD	449.05	444.05		
WAYNESBORO	W4BLD	449.30	444.30		PA
WOODBRIDGE	WB4FQR	444.90	449.90	M	

SIX METERS

ABINGTON	WR4ATJ	52.01	53.01	M	L
ALEXANDRIA	WA4CCF	52.13	53.13	M	P
DANVILLE(DCC)	WB4GJG	52.13	53.13		
FAIRFAX	KA4DCS	52.58	52.48	M	
LEXINGTON	K4PQD	52.01	53.01	N	
LYNCHBURG	WB4DBB	52.15	53.15		
NORFOLK	WR4ATK	53.525	52.525	N	
SOUTH BOSTON	WB4YWH	52.07	53.07	N	C

10 METERS

CHARLOTTESVILLE	K4RKA	29.60	29.60	N	RBC

CVRA-SOUTHEASTERN REPEATER ASSOCIATION · MEMBER · cvra

STATE DIRECTORS AND ASSISTANTS LISTED ON BACK COVER

FOR CHANGES IN THE CVRA REPEATER INDEX-CONTACT YOUR STATE DIRECTOR OR JOURNAL EDITOR

REPRESENTING UHF-VHF INTERESTS THROUGHOUT VIRGINIA NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE & WEST VIRGINIA

ONLY TWO REPS PER MEMBERSHIP

On several occasions clubs who own several repeaters and join the CVRA as Full Members fill out a form for each repeater and name two representatives to CVRA for each repeater, however they pay only one membership.

According to the CVRA By-laws, a repeater group owning several repeaters has two options:

(1) They may join with one membership ($8.00) per year, and list all their repeaters as Full Member repeaters. Only TWO persons may be named as representatives to the organization, usually the trustee and one other person.

(2) If the club owns, say three repeaters, they may join each repeater as a separate full member, and list two Full Member representatives for each membership. Three full memberships, with six representatives would cost $24.00.

SHORT STUFF!

K4###, WB4###, KA4###, KJ4#, NN4##, KB4###, WA4###, AE4#, NE4#, and W4### this is W4@@@ signing clear . . . . . kerchunk. "Whew" . . . kerchunk.

T-MARC - THE MID-ATLANTIC REPEATER COUNCIL

MARYLAND REPEATERS

TWO METERS

ADELPHI	WB3FRW	144.77	145.37	
ANNAPOLIS	W3VRD	144.73	145.33	
ASHTON	WR3AFT	146.40	147.00	
BALTIMORE	K3SP	146.07	146.67	
BALTIMORE	W3DID	147.63	147.03	
BALTIMORE	W3BPX	147.885	147.285	
BEL AIR	K3GUX	146.175	146.775	
BETHESDA	K3YGG	144.69	145.29	
CHELTENHAM	WA3OPC	147.75	147.15	
CHEVERLY	WR3ABC	146.01	146.61	
COLLEGE PARK	W3EAX	144.89	145.49	
COLUMBIA	K3CUJ	147.735	147.135	
COLUMBIA	WR3AGP	147.99	147.39	
CROWNSVILLE	WR3ACL	146.10	146.70	
CUMBERLAND	WA3III	144.85	145.45	
CUMBERLAND	WR3AGI	146.28	146.88	
DAVIDSONVILLE	WR3AJP	147.705	147.105	
E. BALTIMORE	WR3AFI	147.84	147.24	
EASTON	WA3GVI	146.445	147.045	
FREDERICK	WR3ABL	146.13	146.73	
FREDERICK	WA3OHI	147.66	147.06	
FROSTBURG	K3CCC	147.99	147.39	
GAITHERSBURG	WR3AKP	146.355	146.955	
GLEN BURNIE	WA3PJQ	146.205	146.805	
GREENBELT	W3ZM	146.235	146.835	
GREENBELT	W3MZG	146.28	146.88	
HAGERSTOWN	W3CWC	146.34	146.94	
HAGERSTOWN	K3UMV	147.69	147.09	
HAVRE DE GRACE	K3UAV	146.25	146.85	
JESSUP	WA3DZD	146.16	146.76	
LEXINGTON PARK	WR3ACP	146.04	146.64	
LEXINGTON PARK	W3NET	146.265	146.865	
LUTHERVILLE	K3VC	144.61	145.21	
N. BALTIMORE	WA3KOK	146.34	146.94	
OCEAN CITY	W3HTB	147.78	147.18	
POTOMAC	WR3ACF	147.87	147.27	
ROCKVILLE	W3RCN	144.65	145.25	
ROCKVILLE	WR3ABM	146.04	146.64	
SALISBURY	WA3ROW	146.22	146.82	
SALISBURY	WA3YII	146.385	146.985	
SILVER SPRING	WR3AEO	147.78	147.18	
W. BALTIMORE	WR3AGS	147.945	147.345	
WASHINGTON DC	WR3AGX	147.96	147.36	P
WESTMINSTER	K3PZN	144.81	145.41	

SIX METERS

WHEATON	WB3DBU	52.25	53.25	

220 MHZ

DAMASCUS	WR3AHS	222.98	224.58	
DAVIDSONVILLE	N3ARN	222.28	223.88	
E. BALTIMORE	WR3AFI	222.24	223.84	
N. BALTIMORE	N3IC	222.64	224.24	
W. BALTIMORE	WA3DZZ	223.20	224.80	
W. BALTIMORE	WR3AKN	223.34	224.94	
WASHINGTON DC	W3NKF	222.90	224.50	

440 MHZ

ANNAPOLIS	W3EAO	444.475	449.475	
BALTIMORE	W3WCQ	439.25	426.25	V
BALTIMORE	K3SP	444.325	449.325	
BALTIMORE	W3DID	448.40	443.40	
BURTONSVILLE	WA3TKW	448.65	443.65	
E. BALTIMORE	W3WCQ	426.25	1234.25	V
E. BALTIMORE	WR3AFI	444.55	449.55	
FREDERICK	WA3OHI	443.75	448.75	
FREDERICK	WR3ABL	449.80	444.80	
GAITHERSBURG	WR3AKP	443.60	448.60	
GLEN BURNIE	WA3MEJ	448.70	443.70	
HARMANS	W3YYY	443.925	448.925	
HAVRE DE GRACE	K3UAV	448.10	443.10	
JESSUP	WA3DZD	449.10	444.10	
LEXINGTON PARK	WA3UMY	448.05	443.05	
ODENTON	WA3GPC	449.70	444.70	
SILVER SPRING	WB3ARZ	448.45	443.45	
UPPER MARLBORO	WB3IUT	448.30	443.30	
W. BALTIMORE	WA3DZZ	448.35	443.35	
W. BALTIMORE	WA3WLO	448.55	443.55	
WASHINGTON DC	WA3KOK	444.975	449.975	

10 METERS

FREELAND	K3SP	29.52	29.62	

Md., Del., N.Va. Index Ctsy —
Gary Hendricksen, T-MARC

DELEWARE REPEATERS

TWO METERS

BETHANY BEACH	W3HTB	147.78	147.18	
DOVER	W3HZW	146.37	146.97	
DOVER	W3HZW	147.795	147.195	
MILLSBORO	K3JL	147.675	147.075	
NEWARK	WR3ACV	146.10	146.70	
NEWARK	WB3JTK	146.355	146.955	
WILMINGTON	WR3ABA	146.13	146.73	
WILMINGTON	WA3QLS	147.825	147.225	

220 MHZ

WILMINGTON	WB3DPJ	222.40	224.00	
WILMINGTON	AD3M	222.94	224.54	

NON REPEATER MEMBERS WANT TO JOIN US NOW?

We will be making our Bulk mailing of Full Membership applications reminders around the third week of November. Every CVRA-SERA FULL MEMBER representative and anyone else who has submitted their name and address will be receiving an application.

If you are not now a Full Member, and you own of operate a repeater listed as a non-member, and you would like to join CVRA-SERA in 1982, send us your name and address NOW!!! We will put you on the list to get an application in time for you to get filled out and returned to us for 1982.

Also, remember, if you do request an application, be sure to get it back to us PRIOR TO DEC. 31st. In doing that, your repeater will be listed in the February Repeater Journal "Honor Roll" of Full Member repeaters.

If you were a full member repeater representative prior to 1981, be sure to send your name and address for an application. Our computer will only be making labels for 1981 representatives on record. We will make additional labels for anyone who gets their name and address in by the third week of November.

Don't delay, act now!!!

If you are a 1981 Full Member, just wait, your application for renewal will be coming, we already have your name. We expect to mail sometimes during the 3rd or 4th week of November. Get it back to us, PRIOR TO DEC. 31.

MORE FCC RULE RELAXATION CALLSIGN CHANGES EFFECTIVE

The FCC has acted on Docket 80-136 and issued new Ham station identification rules. The new rules took effect on October 23.

Amateurs now only have to identify their own call letters when they make contact with another station, and I.D. every 10 minutes after that. The new Part 97 rule reads:

Section 97.84a:

Each Amateur radio station shall give its call sign-
(1) At the end of each communication, and . . .
(2) Every ten minutes or less during a communication.
Paragraph (h) is being added:
(h) At the end of an exchange of third party communications with a station located in a foreign country, each amateur radio station shall also give the call sign of the station with which third party communications were exchanged.

This new regulation should clear up much muddle on repeaters. Now if we can just get everyone to abide by these new changes and cut out the over I.D.ing.

NC CALL PLATE LOBBY GAINING SUPPORT-PETITIONS PLANNED

We reported last issue, that a bill is ready in the North Carolina Legislature to amend the law on North Carolina Amateur Call License plates. You recall about 3 years ago, the Legislature changed the law, and required Amateurs to pay over 250% more just to get their Call Letter plates made, then pay the normal license fee to obtain the tags.

Several persons in North Carolina have been working hard over the past year with some favorable results. Rae Everhart, K4SWN of Lexington and Marie Presler, WA4YMM were successful in getting bills introduced in both the House and Senate, but the Legislature adjourned the 1981 season before the bills could be acted upon.

Charlie Everest, W4HKB, of Winston-Salem told the Repeater Journal he has been looking into things in Raleigh, and that the bill will probably go into Committee in April of 1982, and possibly before the full Legislature by May.

"An influencial person told me we needed ammunition," Everest said, "Petitions with hundreds of North Carolina Amateurs names on it to present to the Committee."

A campaign is planned in the Spring, we'll tell you more about it in the February Repeater Journal. All persons working with this lobbying effect should contact Rae Everhart in Lexington, N.C. so a combined, carefully planned effort can be made on behalf of North Carolina Amateurs.

WINSTON-SALEM POLICE ARREST YOUTH - CHARGE WITH BREAKIN

WINSTON-SALEM, N.C. - Don Edwards, KB4KQN, owner of Amateur Radio Repair Center of Winston-Salem, reported to the Repeater Journal in mid-October the local police there had arrested one teenager and charged him with breaking & entering the Amateur store, in early September.

Edwards said police theorize there are probably more persons responsible, however no word of any additional arrests was available at press time. He indicated that they had recovered only one radio as a result of the arrest.

"Actually," said Edwards, "The radio caused the arrest." "A local CB shop called police when someone brought in a CB that wouldn't work, and the repair shop found out the radio was actually a 2-meter rig, and the serial number matched one that had been stolen." By tracing where the person had bought the radio, the arrest finally came about.

Don said he felt better, but he hoped more arrests could be made and more equipment recovered. He indicated that he was back open for business and was working hard to catch up on repairs.

REPEATER MEMBERSHIPS EXPIRE DEC. 31

With the exception of a few members who have already paid their 1982 membership, all Full Member repeaters will expire on December 31.

Unlike Associate Membership which runs a year from time joined, full memberships run the calendar year only.

Full Memberships chairman, Gerry Butts reports reminder letters and Full Membership applications will be mailed in mid-November to all Full Member representatives on record for 1981. They are urged to fill out the application completely and return as soon as possible to prevent any delays in processing memberships.

1982 JOURNAL HONOR ROLL

Again this year, we will publish in the Februrary Repeater Journal an Honor Roll of Repeater Memberships. To be included on this Honor Roll, you must have your Full Membership application into our Greensboro Post Office Box before December 31, 1981. We will compile all membership applications that arrive before that date and include the repeater call and location in the 1982 Honor Roll.

DELINQUENT MEMBERSHIPS

Deadline for renewal to be listed as a Full Member in the February Repeater Journal is January 15. If your application is not received by that date, your repeater will be listed with a "D" (Delinquent Membership) If application is not received prior to the May issue of the Repeater Journal, your repeater will be listed as a non-member with an "N" placed beside it.

Repeater owners who were not members in 1981 and wish to be on the honor roll, or at least be listed as full members and receive the February Journal should join prior to December 31 for the Honor Roll and January 15th to be listed as a member for that issue. Applications may be obtained by writing CVRA-SERA Full Membership P.O. Box 5655, Greensboro, N.C. 27403.

FULL MEMBERSHIP GOALS

The CVRA-SERA has set its goals high for Full Membership for 1982. We have a goal of 200 memberships by December 31 to qualify for the honor roll. For the calendar year of 1982, we have a goal of 300 memberships, which should represent about 375 to 400 repeaters (some memberships represent several repeaters). Help us reach these goals. Ask the trustee of your home repeater if he has joined CVRA-SERA as a full member yet. Get that nasty "N" off your home repeater.

FULL MEMBERSHIP INFO

CVRA-SERA Full Memberships run from Jan. 1 thru Dec. 31 each year. Membership fees are $8.00 per membership. For a membership, owners can list as many repeaters as they own to be included in that one membership.

Each membership entitles TWO persons to be named as representatives to CVRA-SERA. It is usually suggested that the trustee be listed as one of the representatives and anyone else of his choosing for the 2nd representative. These two representatives will receive the Repeater Journal for one year.

If a group owns several repeaters and wishes to send in more than one membership, for instance a membership for each repeater, they may do so and include $8.00 and list two representatives for each membership. Most clubs opt for one single membership with two representatives and listings of all repeaters.

FILL OUT APPLICATIONS FULLY

Please do not say "same as last year" on your application, because you might be left out. We do not have manpower to search through hundreds of files to fill out applications. Please complete your application fully, filling in all spaces. When listing your repeater, location, do not list it as a Mountain, use a city, or combine with the mountain and the city. Mountains are hard to locate on maps and people have a hard time identifying your repeater when unfamiliar with your area.

PLEASE, PLEASE NOTE

Finally, a friendly word of warning. Send Full Membership applications to the Greensboro Post Office Box and no where else. The CVRA-SERA Full Membership committee can not, and will not be held responsible for any applications or checks mailed or sent to ANY other location. In years past, especially 1981, a very large number of applications and checks were lost due to problems in the mail and with personnel. This year, we cannot be responsible, since we feel everyone has been warned. Regardless of what address is on your application (in case you get hold of an old one), send it to CVRA-SERA FULL MEMBERSHIP, P.O. BOX 5655, GREENSBORO, N.C. 27403.

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TIME MACHINE MOBILE FOUR

Continued From Page 6

"Sorry, Officer . . . er. . . Leo," Charlie answered respectfully, "but I didn't have control over my landing point. I'm from the past."

"Nah, ya gotta be kidding," the officer said with sarcasm. "Listen, vacuum-brain, this is the third time machine complaint TravComp has sent me on this week. Why can't ya old fogeys stay in the past where ya belong." He paused and looked over Charlie and his temporal mount closely. "Must admit it's the weirdest though. Say, ain't that an old two meter walkie-talkie on your belt?"

"Yeah, I'm a ham radio operater. WX4XXX."

"Well, wadda ya know," the officer said and smiled. "Now you're the first ham time traveler I've met." He reached out and shook hands with Charlie. "Musta been great with them old spark gaps and all."

"Actually, I'm a bit more recent than that," Charlie said. "Mostly work two meter FM. You know, repeaters and so forth." He unclipped the portable and let the officer examine it.

"I see. By the way, name's Sam. 'LEO' means law enforcement officer." Sam carefully turned the walkie-talkie over in his hands. "Man, this is a real museum piece. Don't work the low bands much myself, ya gotta have a zillion watts ERP to QSO on anything below a thousand Gigahertz these days. Lots more hams on now ya know."

"Bet so, that's why I come uptime. Wanta learn about all the future developments, the new technologies, how people live these days, whether Tom Landry ever retired as the Cowboys' coach — all them important things. I'll make a mint when I go back to '79."

Sam shook his head sadly. "Now there's the problem. We don't allow nobody from the past to learn about the future. That's why TravComp, he's a huge computer controlling all travel on Earth, pinpoints time travelers and has us send ya back to where ya belong. If ya were to change the past, it'd change our present. I broke some regs talking to ya this long but hams stick together. Now be a good OM and pop back to '79." He pulled a device from his belt and bathed the time machine in purple light. "The machine will return with ya but'll never work again. Here's your two meter rig back." He gave Charlie the walkie-talkie and the time machine started humming again.

"Rats!" Charlie said in disgust. His surroundings were starting to fade. "Hey, what's your call?" he yelled.

Sam smiled proudly. "I'm an extra — got one of them new short calls. WDF45KMPX4567 . . ." and Charlie lost the rest as the time machine vibrated its way downtime.

The machine ground to a shuddering halt back in Charlie's basement once more and he glanced at his

Please Turn To Next Page

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TIME MACHINE MOBILE FOUR

Continued From Last Page

watch. In real time, he had been gone only fifteen minutes. He smelled smoke and hopped off the exercycle as all his circuitry went up in smoke. Guess Sam meant it, he realized, when he said I wouldn't be allowed to travel in time again.

Charlie took a couple minutes to gather his thoughts and finish a still cold 807 that had been sitting on the workbench. Well, he decided, may not have learned much but I sure gotta story to tell the guys on two. He took his two meter portable and flipped it onto the local repeater. Boy ohboy did he have a tale to tell.

Voices blared from the tiny speaker. Oh no, he thought and groaned out loud. Old Effie was on telling about her latest kidney operation. By his count, she'd had five kidneys out this year . . . Must grow them in clusters like grapes. Well, her hospital stories would just have to play second fiddle tonight, he had something important to talk about. He patiently waited for Effie to pause in her medical monolog.

"Break, WX4XXX."

". . . and then, this snippy little nurse came in with . . ."

"Break!"

". . . the doctor said that he had never seen a more classic case of . . ."

"Break. Break. Break."

". . . sore and the scar was . . ."

"Break! C'mon Effie! Break!"

He never got in.

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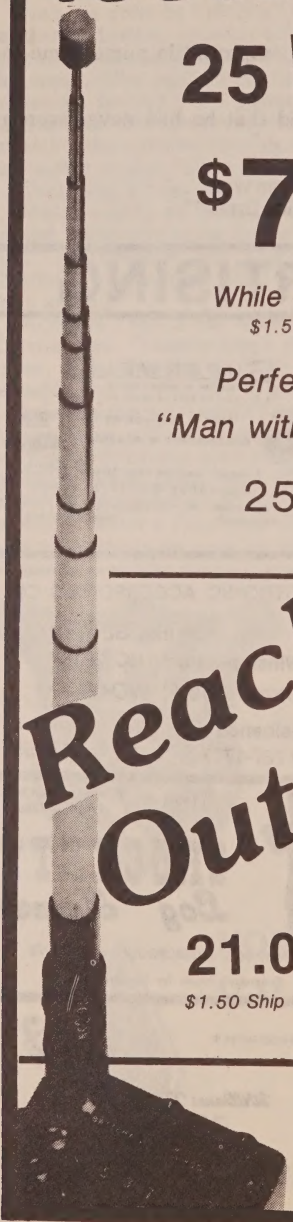

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CVRA DISTRICT RAMBLINGS

Complied by Journal Staff

SOUTHERN PINES, N.C.—R.S. Trudell, WB4JLT reports over 16 active members now in the Moore County Emergency Amateur Radio net, serving the county. The group has obtained a repeater which was located at Pinebluff and are moving it to a new location on top of the county Court House in Carthage. The machine should be operational by the time you read this. (Ray, WB4JLT)

• • •

MEDINA, TN.—The K4BEZ/R now has autopatch. The repeater is the hub of the West Tennessee Weather Net. The 37-97 machine is Regency and Motorola Micor with the ARRL handbook design duplexer. The high performance of this repeater is due to finely tuned equipment and an antenna system second to none. The antenna is made up of four verticle poles, mounted on opposing directions on the sides of the tower, providing an omni-pattern. The machine has emergency power and is linked to a UHF repeater at the same site on 447.05-442.05. (Dave, WA4VVX)

• • •

ROCKY MT., N.C.—The new 220 mhz repeater for the Rocky Mount area should be on the air soon. The 222.36-223.96 machine will be conducting a net nightly at 8:00 p.m. This becomes the Easternmost 220 repeater in North Carolina (Wayne, K4MCB from note from Bill, KA4DAP in August)

• • •

KNOXVILLE, TN.—Tim Berry, WB4GBI, better known in two-way circles as "Wrongway Berry", says his machine will be on from View Park Knob in South Knoxville by the time this Journal goes to print. If you will remember, he SAID the sub band 87-47 machine would be on by the time the last Journal went to press, Well, does his nickname tell you anything? Hi! (Sam, WB4HAP)

• • •

NEWTON, N.C.—James, KD4OM reports the club, Centralina ARC is still working on their 83-43 sub-band repeater in Newton and have hopes of getting it on the air in the future. Meanwhile, the club conducts their nets on the Newton 85-45 sub-band WD4LCF repeater. (James, KD4OM)

• • •

NEW TENNESSEE REPEATERS: Coordinations has been completed for three new local coverage repeaters. More information will be presented later on these machines in the Journal. They are Savannah, WA4TPA/R 79-39, sub; Stantonville, WA4TPA/R, 87-27 and Hohenwald, WB4LHV/R, 765-165. (Sam, WB4HAP, Tn. Director)

• • •

ATHENS, TN.—The WB4GRC/R will be on the air soon on the coordinated frequency of 144.71-145.31. The repeater is intended to serve Meigs and McMimm counties and the Athens club is working closely with Civil Defense and TVA's Watt's Bar Nuclear plant on a disaster communications plan to be used in conjunction with this machine. The equipment includes Regency Radios, a TX-RX duplexer and AEA Isopole Antenna. (Lynn WA4JTD)

KNOXVILLE, TN.—A new UHF repeater is almost finished. The KB4NK/R is on the coordinated frequency of 449.5-444.5 and is co-located with the WA4YON 6-meter and 1¼ meter repeaters on Cross Mountain, about 25 miles NW of Knoxville, elevation 3410 AMSL. The equipment is Motorola Micor and VHF Engineering with homebrew duplexer and D.B. Products 8-bay antenna. This machine and all others at this site have emergency power. (Gene, WA4YON)

• • •

SUFFOLK, VA.—Stewart Tyler, WA4JUO reports he still plans to get his 220 mhz repeater on the air in the Suffolk area. He is out of town until the first of the year, but will be back permanently in January at which time we plans serious construction of the repeater. He will operate on the frequency of 222.34-223.94. (Stu, WA4JUO)

• • •

ASHEVILLE, N.C.—The NC4N/R 220 mhz repeater went on the air in August atop Dryman Mountain on the West side of Asheville. Garland said his 223.00-224.60 machine is on a self-supporting 50-foot tower. (Garland, NC4N)

• • •

COMMENTS FROM READERS: Tom, W4AVU of Charlottesville writes that repeaters being listed on Mountains or small towns and villages which are not shown on maps are very hard to find. The CVRA-SERA Directors have discussed this problem and are making an attempt to improve the situation, by changing names to cities instead of mountains, or using mountain/city combination names, space permitting in the line on the index. Walt, K4CVG writes that since we have symbols for most everything else, why not have a symbol in the repeater index for machines with timers. Walt, this would be very handy, but I'm not sure we could get you the accurate information. Full Members would include information like that if requested on the application, but the many other repeaters who never bother to join might not bother to send information either, however we shall take it in consideration at the January Directors Meeting. Meanwhile, you might remember, conversations or transmissions should be short on repeaters anyhow, leaving way for breaking stations. That is basically the whole idea for timers... to keep transmissions down to a reasonable length. (Wayne, K4MOB, Editor)

• • •

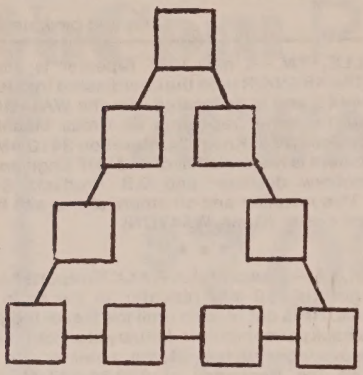
BOONE, N.C.—The Boon 96-36 repeater has a new trustee, WA4KDB, John Dinkins will lend his call to the machine. The former trustee Mark Setzer, WB4DYD died in June. (John, WA4KDB)

• • •

CHATTANOOGA, TN.—The autopatch is up and running on the KB4TZ/R 79-39 sub-band repeater. Access code is *89 and the # sign for disconnect. Terry, the repeater trustee, asks that common-sense rules be followed when using the patch. (CTSFMA Newsletter)

Continued On Next Page

THE MAGIC TRIANGLE



This relatively simple little puzzle requires you to enter the numbers one through nine in the boxes of the triangle so that each side adds up to a total of 17. See answer in back of this issue.

CVRA DISTRICT RAMBLINGS

HIGH POINT, N.C.—DAVE N4XO reports the new sub-band 51-11 High Point repeater is going on the old 19-79 repeater site in that city. The new Spectrum repeater with Wacomm duplexer and Hustler antenna should provide a little better coverage than did the old 19-79 machine in that location. Autopatch and other facilities are planned. (Dave, N4XO)

• • •

LOUDON, TN.—The Loudon County ARC has co-ordinated 144.57-145.17 for a medium coverage machine, to be located on the highest knob in Loudon County and at the home of Dennis, WA4SCI. The WD4HQI/R has been in the test mode using two 2-meter transceivers and a repeat-a-math. Initial tests reveal coverage of about six counties. A Wacomm duplexer, COR and ID kit are all on order and the Motrac equipment is being tuned to the new frequency. We will be looking for this CVRA-SERA member repeater on the air soon. (Bob, WD4HQI)

• • •

RICHMOND, VA.—The 34-94 repeater owned by the Richmond ARC has a new PAC-144 Gaasfet pre-amplifier on the receiver. It has enhanced reception with solid service in the Richmond, Ashland, Petersburg, Hopewell and surrounding areas. Marginal and noisy signals are now fully usable. The machine is tone accessed, second column touchtone or whistleup. (Jim, K4OJE)

• • •

MURFREESBORO, TN.—The WB4LHO/R on 114.57-145.17 is now giving dependable communications to local hams. Plans for future upgrading are extensive, including several remote receivers and micro-computer control. (Dave, WB4LHO)

• • •

WILMINGTON, N.C.—The Wilmington 22-82 repeater is still down, except occasional operation at a home until the new Channel 3, 2000 foot tower can be constructed. You will recall, the repeater, as well as the TV station was put out of commission when an airplane knocked down the 1200 foot tower. A new GE Mater repeater will possibly be made available by the time the tower is completed sometimes early next year. (Wayne, K4MOB)

• • •

GREENEVILLE, TN.—The W4ANB/R 10-70 repeater is sounding good from Viking Mountain these days. The machine underwent a major rebuild recently, using Motorola Micor boards. The machine is workable from Shelby, N.C. with a 10-watt mobile and is equally good in other directions. After all, it's only 5,000 feet up. (Lee, W4ANB)

• • •

RICHMOND, VA.—The 66-06 repeater is now on the air 24 hours daily from the 200 foot level of a commercial tower in the suburban Chester area, and has a nice signal over Richmond and Petersburg. The repeater call is WA4ECM/R (Jim, K4OJE)

• • •

PICKINS, S.C.—The new Pickens 220 mhz machine went on the air near the first of August operating on 222.54-224.14 which was coordinated with CVRA-SERA. The WB4QHF/R machine consists of a converted FM-76 transmitter and receiver, using a Lunar 1.3M10-70 Watt power amplifier on the transmitter and a Lunar PA-220 preamp on the receiver. Duplexer is by Decibel Products, BP-BR-6 cavity. Antenna is a Cushcraft Ringo Ranger. Coverage is good in the Pickens, Greenville, Oconee and Anderson county area. The repeater is located at the home of WB4LZT, James Littleton. (Mandell, WB4QHF)

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The APCO Story

—by Mick Rankin, W4ZUS

On 7 August some 42 hams gathered at the Hyatt Regency in Atlanta with about 350 other members of Associated Public Safety Communications Officers (APCO) for our National Conference for 1981. APCO is the association of tele-communications professionals within the public safety/emergency service field.

Some of the tasks APCO carries out are: Acting as national frequency coordinator for the Public Safety service, by FCC designation. Appearing before the FCC as the voice of Public Safety/Emergency communications in regulatory matters.

Developing standards, training material and professional aids for telecommunicators.

Assisting local governments in solving public safety communications problems.

At the conference we had our own channel 146.58 which seemed to never be full yet always monitored by someone at the conference. It was an enjoyable meeting place for the hams, as well as a handy way to arrange eyeball QSOs and field trips to local eateries.

The conference not only had a number of interesting workshops and seminars (both operational and technical) but also had a large exhibit area chock full of the latest in communications gear, ranging from batteries to consoles, from portables to towers. Audio to microwave. I was able to haul off a good 50 pounds of brochures, catalogs and spec. sheets.

As a result of the ham activity at the conference there is a move afoot to start an APCO net on 20 meters.

Some of the technical seminar topics were, Antennas for the new breed of Automobiles, Application of microprocessers to console control, Transmitting combiners, Synthesized radios, Scanner Applications for Public Safety, Amplitude Compandored Sideband-Answer to spectrum congestion.

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NEW DIRECTOR-VICE DIRECTOR APPOINTED IN NC BY PREZ

With the resignation of Buff Buffington and Danny Hampton as North Carolina Director and Vice-Director, President Lane Tarleton immediately appointed Ken Woodard, WA4BVW, Director, and Calvin Dampsey, WA4UTC, as Vice-Director.

Buffington who travels extensively in his job told Tarleton in his letter of resignation that he felt it was not fair to the organization for him to carry on the Director's job under such circumstances. Hampton who also resigned said that he felt he could not carry full duties of a Director at this time and declined to fill the post of Director.

The new North Carolina Director, Woodard is experienced in this post. He did an excellent job in his 1979-80 term leading CVRA-SERA in North Carolina. He said he didn't mind filling the unexpired Director's term which continues through 1982.

Dempsey is a newcomer to the ranks of CVRA-SERA, although for years he has been a supporter of the organization. He said he would be glad to assist Woodard in keeping North Carolina coordinated.

Their strategic locations in the state will work well, with Woodard living in Canton, near Asheville in the Western mountains of the State, and Dempsey in Tarboro, in the Eastern flatlands of the State.

North Carolina Amateurs wishing frequency coordination for new machines, or wishing to correspond with CVRA-SERA for assistance should contact their new Director or Vice-Director. Their names and addresses are listed on the back cover of the Journal, under North Carolina.

LITTLE MT. REUNION

The Little Mountain Reunion was held this year on August 1 at Little Mountain, South Carolina. Activities included two and six mile races, a parade, various bands, political speeches, and other related activities.

Local amateur radio operators used mobile units and handi-talkies on 146.52 mHz simplex to help provide communications for the foot races. Operators assisting were KA4BFC, WD4JOU, K4HIH, KA4KOO, WA4KXO, W4PIL, WA4VYS, and KB4CO. The races were held without a hitch and it appeared that the efforts were appreciated.

Jim, WA4KXO, was "shot" by several "Mountaineers" for throwing kisses at the Beauty Queens in the parade. Fortunately for Jim, however, only blanks were allowed at the reunion, and he was able to enjoy the rest of the activities.

COORDINATION *Continued From Page 12*

the coordinating services of the Directors shall submit to the Director in his area a completed repeater frequency coordination form. Upon recommending a specific frequency pair to an applicant, the director will hold that pair and its planned coverage area open for a period of 60 days, by which time the proposed repeater shall be in operation at its permanent location with coverage area as proposed. An extension of this construction period can be made by contacting the area Director but will be granted only for bonafide reasons different from simple failure to proceed from lack of interest. Rationale: This practice, taken from FCC practice, insures that valuable spectrum not be wasted by holding assignments open for protracted periods when applicants fail to construct in a timely manner.

HAMFEST SEASON . . . IT'S ALL OVER

Continued From Page 1

registered an increase in dealer participation.

Two new hamfests this year, Tri-Cities, Tn. an offshot of the old Bristol hamfest had a fair showing, but the two day event could have easily have accomodated one day. Greensboro, N.C. after an absence of 4 years, put on a show this past season. Their flea market area and dealer participation was excellent, but the crowd was disappointing which may or may not have been attributed to Field Day activities being held the same weekend. They could have had a good one day event.

One noticable change this year, most of the hamfests were held indoors with the exception of about 5. Two of those were held under covered parking decks. Some of the indoor classified hamfests had large buildings for venders and outside fleamarkets.

Perhaps the coldest hamfest of the year was at Richmond. Temperature was 5-degrees Sunday morning. The hottest was probably Oak Ridge, Tn. with temperatures in the high 90's, although the hamfest was all indoors in an air conditioned building. Shelby lost their status as hottest this year as cloudiness prevented temperatures from rising too high on Labor Day weekend.

Most dealers report good sales this year. This seemed to be the year of the 2-meter handheld . . . everyone was buying one.

Apparently the economy hasn't hurt this area quite as much, if measured by sales at hamfests.

There were very few conflicting dates this season, clubs are being careful to schedule their shows on free weekends more than ever.

Concord expanded the season this year, as that North Carolina hamfest was moved to November. The month of May still seems to be the favorite of many clubs to hold their shows with every weekend scheduled by at least one club, and in some instances two clubs.

So we can sit back and relax for a month now . . . no hamfests. But come January, it starts again in 1982 and will continue for another 11 months. We still don't have anyone who has tried a Christmas hamfest, maybe one in Colfax . . .

—Wayne C. Williams, Editor

Frostfest '82

Sunday, Jan. 10, 1982 **8 a.m. - 4 p.m.**

Virginia State Fairgrounds **Richmond, Va.**

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REPEATER CAUSING INTERFERENCE SHUT DOWN TEMPORARILY BY FCC

SPECIAL TO THE REPEATER JOURNAL

A potentially dangerous situation wsa averted last month in the Raleigh-Durham area, thanks to fast action by the FCC and the cooperation of several local amateurs. According to J. J. Freeman, Engineer in Charge of the Norfolk FCC office, a call was received on September 15, 1981 from the Federal Aviation Administration concerning interference being experienced by military aircraft in the Raleigh-Durham area that was impairing radio communications. Since the military frequency was in the 290 mhz range and some pilots reported hearing voices and parts of conversations at times. FCC staffers decided that the second harmonic of an amateur two meter operation was probably responsible for the interference.

The FCC staff contacted some amateurs in the Raleigh-Durham area, who provided them with a list of all the two meter repeaters in operation. The engineers matched up the operating frequency of a new repeater operating in Raleigh with the frequency being interfered with, and put in a call to the amateurs responsible for that repeater. A check with a spectrum analyzer revealed a second harmonic suppression of 16db, so the repeater was immediately shut down.

The next day, after installing filtering on the transmitter, the second harmonic was found to be suppressed 56db below the fundamental. A test was coordinated with the FAA, confirming that the interference had been eliminated.

"Because of the safety of life considerations involved in the case," said Freeman, "Prompt resolution of the interference was imperative. The cooperation of the amateur operators involved demonstrated their concerns for an interference - free spectrum for all radio users."

WRITER NOT ACTUALLY AUTHOR!

One of the most talked about stories in the past Journal was the one about the bricklayer and his letter to the insurance co. It seems a proofreading error let readers believe that Dan Renfro wrote the original story. We should have noted that the copy was submitted by Dan. According to Hugh Brunson, AE4N, the story has been circulating for years and no one really knows who the real author is. Sorry for the confusion Hugh, and to all others who caught it. (Editor)

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BARRETT, ADAMS NAMED SECRETARY, TREASURER

President Lane Tarleton, KC4CD, at the Board of Directors meeting in Shelby, named Ray Adams of Knoxville, Tn. as acting Treasurer to complete the unexpired term of Carl Smith.

That same weekend, Maxine Barrett of Lookout Mt., Tn. was named to temporarily fill the vacancy of Secretary of CVRA-SERA. The secretary position had been open since Mike Williams, KC4AO was elevated to the position of Virginia Director last January.

Both Ray and Maxine are nominees for the offices of Treasurer and Secretary by the nominating committee. If they are unopposed, they both will assume the responsibilities of their respective offices on a permanent basis for the next two years.

Carl Smith, former Treasurer, resigned unexpectedly, effective August 31, citing business pressures and personal reasons which left him with no time to carry on the job of Treasurer in such a way as to benefit the organization.

At the annual meeting, President Tarleton said he regretted losing Carl as Treasurer, because he had done an excellent job over the past 3 years.

(Carl submitted an August 31 closing financial report upon his resignation, which appears elsewhere in this issue of the Journal.)

OBITUARY: (Or How To Find A New Trustee)

—by Dub Yarborough, W4VTP

Zeke Callihan woke with a start realizing that he had one more day of vacation left to spend at home. The seven days at Blister Beach had been miserable. Nothing biting but sand flies, the 2 meter rig went on the blitz and the heat was unbearable. He pulled his pants on and went out to get the morning paper. The cool damp six inch high grass felt good to his bare feet. Should have mowed it before I left, he thought, now I'm too exhausted to do it. Returning to the house he tossed the paper on the table in front of his wife. Sara, who was already halfway down in a cup of coffee and proceed to pour himself an eye opener. He looked at Sara as she poured through the paper. Gosh, she looked awful. Her hair looked like two wildcats had been fighting in it all night. Thinking to himself, every man should see the woman he is going to marry when she first gets out of bed. Bet plenty of them would have second thoughts. Of course, Zeke should have looked in the mirror himself, with three days growth on his face and blood shot eyes, he was not handsome. When he finished the coffee and the morning paper the world could start turning.

Zeke! Listen to this Sara almost shouted. Here in the paper under the obituary column . . ."A local lady passes away. WR4SUE, better known as Miss Sue, passed away 10 p.m. last evening. She was the daughter of the Green Valley Radio Society. Funeral arrangements are incomplete at this time but it has been learned that the Society will receive friends from 7 to 9 p.m. Thursday night at the Club meeting place".

What! Said Zeke as he spilled about half his coffee on the table.

Zeke, this must be some sort of joke. Repeaters aren't human. They can't die can they Zeke?

Well, yes and no. The call will die if Bud has given up the Trusteeship. We will have to get a new Trustee for sure now. Got to get the repeater back on the air. I had heard that Bud wanted out but I guess nobody took him seriously. He wasn't too bad I guess but he was always fussing about some rinky-dink regulation or other. I never did forgive him about that autopatch he wouldn't let me make to the office. You know how close we came to loosing the house on that. Old Sparks would make a good Trustee. He lives and breathes radio 24 hours a day.

Sara: Is that the reason his wife left him?

Not entirely. Being gone on a county hunting trip on their 50th anniversary probably contributed some. Also that deal at the church helped too. She never forgave him for that. The preacher went out to the parking lot and in so many words told Sparks that he should be in church with his wife instead of rag-chewing outside on his radio. But how was Sparks to know that there was a malfunction in the church sound system and his QSO was coming in loud and clear to the congregation. Sparks went in and apologized to the whole group including the preacher. I believe she left him when he started having QSO's in his sleep. Said she couldn't take it any more.

Zeke, why don't you take the job as Trustee?

Well, I'd have to go to the meetings and you know they come on the night I watch Charlie Gumshoe and the Teenage Terror Gang on TV. I told the Newsletter Editor I would read the news when he put a comic strip and cross word puzzle in it. As it stands I don't really know what is going on. I don't believe I would make a good Trustee. I'd rather set back and heckle the Trustee and Officers. That's the way I keep them office holders on their toes. Gosh, no repeater. Now I won't be able to talk your Uncle Joe to the house when he arrives today. Sara, make some more coffee. I have a feeling this is going to be a bad day. *(Ctsy - Cape Fear ARS NEWS, Fayetteville, N.C.)*

NEW ASST. DIRECTORS FOR TENNESSEE

—by Sam Kirby, WB4HAP (Tenn. Director)

In an effort to provide help to repeater owners on a more localized basis, we have two new asst. directors in Tennessee. This brings the total to five directors in Tennessee now. Please find a map elsewhere in this issue showing the counties served by each director.

J. Tom Park, WD4KWP is a repeater owner living in Gallatin, Tn., near Nashville and is now serving as North Central Director. Tom is knowledgeable in repeater operation and is familiar with the repeaters in his area. He operates a marina and also works as a communication consultant in his spare time. His address is: J. Tom Park, WD4KWP, 1198 Lock 4 Road, Gallatin, Tn. 37066. His phone: (615) 452-3822.

Our new South East Director is Tom Smith WA4ZOK from Chattanooga. Tom was freq. coordinator for his area under the Tenn. Rptr. Advisory Committee. He is a long-time supporter of CVRA-SERA and operates three repeaters, all on different bands, in the Chattanooga area. Tom stays in the mainstream of F.M. activity and also is familiar with F.M. operation in Northern Georgia and Alabama. His address is: Tom Smith, WA4ZOK, P.O. Box 116, Harrison, Tn. 37341. His phone is (615) 899-4425.

They say it's hard to beat a pair of Toms . . .or is that Jacks?

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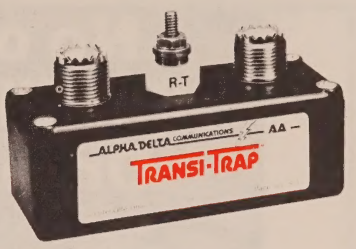

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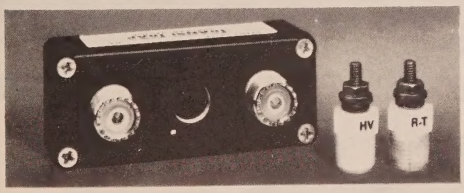

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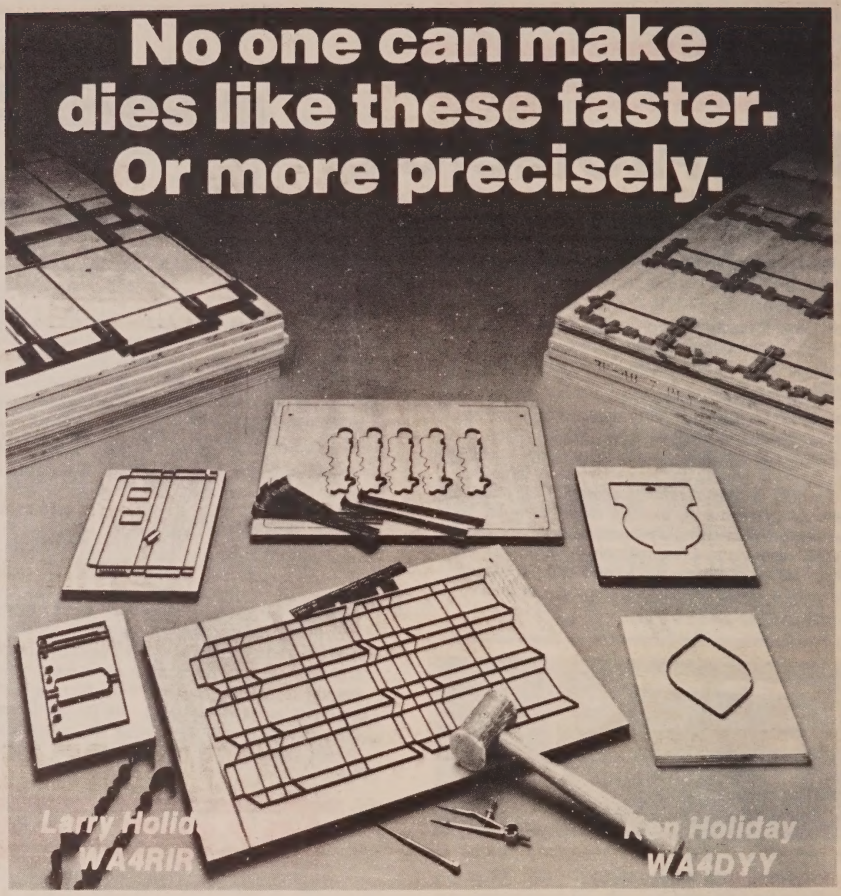

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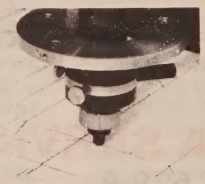

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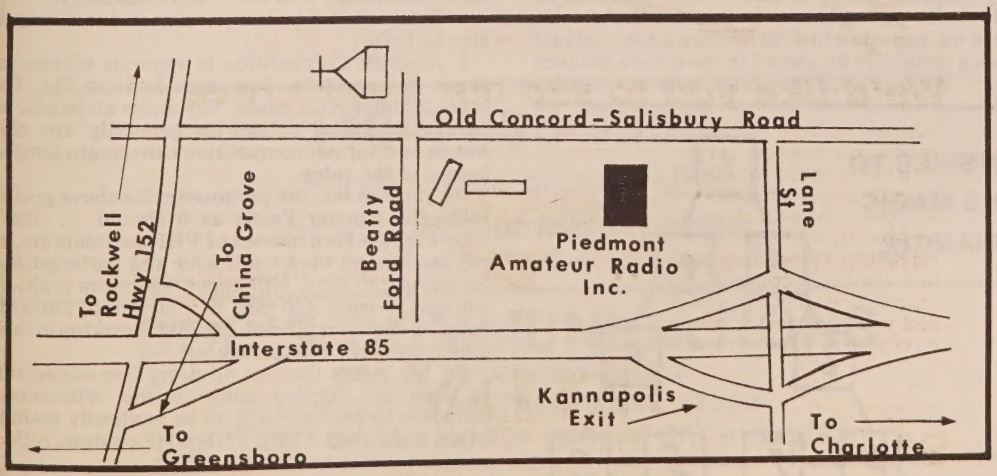


A CRYING VOICE HAS BEEN HEARD

Continued From Page 1

my letter this month.

At the September CVRA-SERA board meeting, the Directors discussed my rule proposals and although they did not go on record as endorsing them, their general feeling was that of overall support. They all agreed that existing ARRL rules were totally wrong to encourage participation in VHF/UHF contests. I didn't actually ask for a vote of support from the Board, I just wanted to feel them out to see if they had the same feeling I did concerning the contest rules.

John Kanode, N4MM, Vice-Director of the Roanoke District who was present at the CVRA-SERA board meeting agreed that the contest rules should be changed, in fact, he has written his own proposed changes to the Contest Advisory Committee. John could not recall how the blanket ruling of a 4 hour limit on two meters and 220 FM simplex came about for 146.52 and 223.50. He confessed it was probably as I stated in my editorial last issue, someone complained.

Kanode said that the committee generally takes input from amateurs in effect when advising and making rules for things such as contests. He said he felt that probably the committee had received strong suggestions from a group, probably in California, to limit time on those two simplex frequencies and they had placed the limitation in the contest rules.

Being a poor comedian, I still managed to draw a laugh when I asked John if the ARRL was going to adjust the 20 khz bandplan that Washington and Oregon was trying to cram down the throats of the rest of the country. just because a small group is vocal enough.

My personal theory of how a contest should be run includes paving a way so that the "little" man can get on, operate a little at his own pace, and feel he has a chance to be placed in the results column of QST. We described the "little" man as one who has a 10 or 20 watt FM rig, with an 11-element beam. Years ago, we heard hundreds on the air during contests, working the "biggies" and working for points on their own. If you listen to contests today, you hear mostly "biggies" (club stations, all mode, all VHF/UHF bands, big antennas, kilowatts all bands on 5,000 foot mountains.

The "little" man has been forced out mainly due to the way the rules are written for the contests. He doesn't have a chinaman's chance with the restrictions, time limitations, competition with SSB, CW, all bands etc.

Briefly here is what I have outlined to the Contest Advisory Committee as to how I think the rules should be for the VHF/UHF contests. I know everyone won't agree with every proposal, but some of mine, some of someone elses that generally favor the masses of two meter operators on FM only will generate more participation in the contests, and make more fun for the "little" man, and more contacts for the "biggie" on the mountaintop.

SUGGESTED RULES

1. Contest runs 24 hours operating time. Starts 1700 UTC Saturday, ends 2100 UTC Sunday. Stations shut down Midnight to 4:00 a.m. LOCAL time.

2. Scoring: 2-meter and 220 mhz FM score 2 points, SSB & CW score 1 point. Six meter all modes, 1 point. 440 mhz and up, all modes, score 3 points per contact. 440 mhz and up, all modes, score 3 points per contact. Multipliers stay same, score tallying remain same.

3. No time limitations on any frequency on any band. Frequencies to be used: FM, any ARRL bandplan simplex frequency. SSB & CW, any ARRL bandplan SSB and CW frequencies.

4. Categories: Single operator and multi-operator as before.

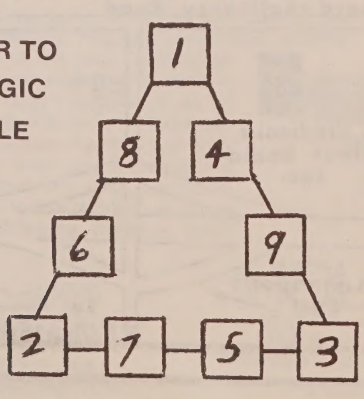
5. Awards: Competition in separate classes for single-op operators. Top score 2-meter FM, Top score 2-meter ALL mode, Top score all bands, all modes. Multi-op categories generally are club setups and normal competition can remain same as before in the rules.

As you can see, the proposed rules above greatly favor the 2-meter Fmers as it should . . . . that's where the greatest masses of VHF amateurs are, so we need to get them on the air and participating. Favoring 220 mhz. will encourage more multi-op stations to work 220 mhz in their setup, knowing more operators will be on 220 mhz. working in their single category for scoring.

So, Mr. ARRL Contest Advisory Committee, this is what the "crying voice in the Wilderness" proposes to you. We will all be anxiously waiting to see if the 1982 ARRL VHF/UHF contests reflect some new changes for the better.

—Wayne C. Williams, K4MOB, Editor

ANSWER TO THE MAGIC TRIANGLE



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NATIONAL RADIO QUITE ZONE STILL TO APPLY TO AMATEURS

—From HR Report

The FCC decided September 30th that the National Radio Quiet Zone should still apply to Amateur repeaters, as they denied the ARRL's Petition for Reconsideration of the restrictions it had adopted last March.

The Commission pointed out that the Quiet Zone around the National Radio Astronomy Observatory and the Naval Research Laboratory was established in 1958, and that voluntary coordination (as proposed by the League) "would not ensure the protection from harmful interference that NRAO and NRL require."

TRIDENT ARC INITIATES SEVERE WEATHER NET

—by Garry Barnette, WA4MDP

To assist weather officials get a more accurate picture of local weather phenomenon the Trident Amateur Club (Charleston, S.C.) have established a severe weather net over WB4LET/Rpt.

Upon request from the local Weather Bureau one of the designated net managers activates the net and calls for checkins from the Trident area. Each station checks in giving their location along with any pertinent weather information such as extreme winds, flooding, hail, etc. This information is then passed on to weather officials through the net control station or it may be directly received by weather officials through their monitoring of the net. Provisions have also been made to establish a two meter station at the Weather Bureau should that immediate need arise.

Prior to the establishment of the net, local weather officials sponsored a seminar at which about a third of the clubs hundred-twenty plus membership were qualified as official weather observers. After completion of the seminar those attending were given both certificate and identification cards and provided with a local phone number to be used only for the reporting of severe weather.

In explaining our benefit to his office meteorologist, Dick Shenot, stated that radar was of limited benefit within ten miles of the radar site. Even when the storm is outside this range, accurate weather information from trained, reliable observers greatly aid in preparing more accurate local weather reports.

Net control stations have been W4TWW, Coleman Rowland, KT4X, Mutt Spaulding and KC4BY, Joe Schmitt. Weather Bureau officials have been complimentary over both the accuracy and number of reports each time the net is called into session.

CVRA ASSOCIATE MEMBERSHIP

CLIP OR XEROX THIS HANDY APPLICATION AND PASS ON TO A FRIEND TO JOIN CVRA!

NOTE: Membership deadlines are 2 weeks prior to publication month. Applications received after deadline will receive next regularly scheduled Repeater Journal, February, May, August or November.

APPLICATION FROM _____ WHO RECOMMENDED CVRA!

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Name _____ Date _____

Address _____ Call: _____

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The Repeater I call "home" is: _____ REPEATER CALLSIGN

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KJ 11-81

Mail to:

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calendar of coming events

1982 CVRA-SERA CALENDAR

JANUARY
10 ..... Frostfest '82, RICHMOND, VA.

FEBRUARY
6-7 ..... Florida State ARRL Conv., MIAMI, FLA.
14 ..... Hamfest, FAYETTEVILLE, W. VA.
21* ..... Winterfest, VIENNA, VA.
21 ..... Winter Hamfest, ELKIN, N.C.

MARCH
13-14 ..... Hamfest, ORLANDO, FLA.
20-21 ... Roanoke Div. ARRL Conv., CHARLOTTE, N.C.

APRIL
18 ..... RARS Hamfest, RALEIGH, N.C.
23-25 ..... Dayton Hamvention, DAYTON, OHIO

MAY
1-2* ..... Tri-City Hamfest, JC/KINGSPORT, TN.
1-2 ..... Hamfest, GREENVILLE, S.C.
15-16* ..... DFMA Hamfest, DURHAM, N.C.
22* ..... Gaston Cty. Hamfest, GASTONIA, N.C.
22-23 .... Roa. Div. ARRL Lea. Plan Meet, RALEIGH, N.C.
22-23 ... ARRL Delta Div. Conv/Hamf., KNOXVILLE, TN.
30 ..... RVARC Hamfest, ROANOKE, VA.
29-30 ..... Great GBO Hamfest, GREENSBORO, N.C.

*** Unconfirmed Dates. To send corrected hamfest date for February issue, mail to Editor prior to Jan. 2, 1982.**

ROANOKE DIVISION ARRL SERVICE AWARD

Stuart Meyer, W4GHK of Vienna, Va. was selected recently to receive the prestigious Roanoke Division ARRL Service Award for 1981.

A plague is given to the Amateur radio operator in the Roanoke Division who has done the most diligent and dedicated service on behalf of Amateur Radio during the past year.

The selection is made by the vote of previous winners and is announced at the Division Convention or at some other Division affair in the Fall of the year.

Meyer, who was being installed as QCWA President during the weekend of the Roanoke Division Convention at Virginia Beach, received word from Gay Milius, W4UG, Roanoke Division Director that he was recipient of the award. Milius said Meyer will receive his plaque at a later date.

Previous winners of the award include, W4KFC, W4ACY, W4GF, W8JM (deceased), K4LMB, W4PED, W8DUV, WA4PBG, W4FJ, W4CIZ, N4XX and W4UG.

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Bino Communications (NC) 8
Business Card Advertisers 39
Dielectric (ME) ..... Ins. Bk. Cover
Doc's Communications (TN) 53
Dynamic Engravers (NC) 17
Electronic Accessories (NC) 4, 5, 40
GISMO Communications (SC) 36, 37
Holiday Steel Rule & Die Co. (NC) 50
Hometronics (NC) ..... Ins. Ft. Cover
Mar-Vista Motel (SC) 38
Piedmont Amateur Radio (NC) 51
Repeater Journal Advertising Rate Card 44
Richmond Frostfest (VA) 46
Two-Way Radio of Carolina (NC) 25
West Antenna Service (NC) 16 22, 42, 49
Williams Radio Sales (NC) 7, 10, 47

OBITUARIES

It is with regret the Repeater Journal reports the deaths of the following CVRA-SERA members:

COY MIDKIFF, WA4IHG. Coy, 72 from Mt. Airy, N.C. died Thursday, Oct. 15.

HOWARD GRANT, K4TYW. Howard from High Point, N.C. died in late September.

CLASSIFIED

If you have equipment you would like to swap, sell, buy or trade you're invited to send us your want ads. Mail them to our Sales Manager listed on page 1 of the Journal. Ads are not limited to Amateur Radio items.

CLASSIFIED AD RATE: Non-Commercial or Commercial. $2.25 per ad. Enclose check with ad in advance of Publication. (Max. 30 words per ad).

Ads must be submitted 30 days prior to publication. The CVRA assumes no responsibility as to the accuracy of description of equipment or its condition.

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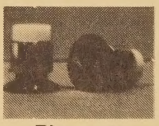

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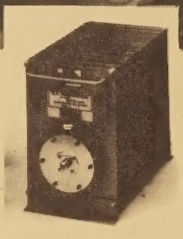

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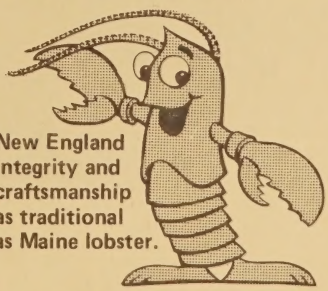

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